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COSPAS-SARSAT SATELLITE ORBIT PREDICTOR VOLUME IV

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Cospas-Sarsat Satellite Orbit Predictor Volume IV

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National Aeronautics
and Space Administration

**Scientific and Technical
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**THIS ALMANAC COVERS THE PERIOD OCTOBER 15, 1984,
THROUGH APRIL 15, 1985, AND WILL BE REPLACED PERIODICALLY.**

SATELLITE ORBIT PREDICTOR

The satellite orbit predictor is a graphical aid for determining the relationship between the satellite (SARSAT or COSPAS) orbit, antenna coverage of the spacecraft and coverage of the LUTs. The predictor allows the user to quickly visualize if a selected position will probably be detected and is composed of a base map and a satellite track overlay for each satellite. Additionally, a table of equator crossings for each satellite is included.

In order for a LUT to receive ELT/EPIRB information from a satellite, mutual visibility between the satellite, LUT and ELT/EPIRB must occur. Mutual visibility requires two simultaneous conditions:

- a. The satellite subtrack or ground track must lie within a LUT coverage circle for at least 4 minutes.
- b. and the suspected ELT/EPIRB must lie within the satellite antenna coverage swath during the 4 minute period.

The base map is a polar stereographic projection of the northern hemisphere. The LUT coverage circles are based on the LUT seeing the satellite at the horizon. On projections of this type equal increments of latitude are not equidistant. Therefore, the map includes a dot matrix in the ocean areas with the dots printed as a one degree latitude by one degree longitude field. Another property of the projection is that the center of the LUT coverage does not coincide with the actual geographical position of the LUT.

The overlay shows the satellite ground track or subtrack (black) starting from the ascending node (northbound equator crossing) and continuing minute by minute across the overlay. In addition, the 10 degree coverage limits of the spacecraft antenna (red) are plotted on both sides of the subtrack. The yellow lines connecting the antenna coverage swath and the subtrack indicate time in minutes. Just to the west of the left hand antenna coverage limit is a short line segment (labeled "next pass") which is the index for the next ascending node equator crossing.

The table of satellite equator crossings contains the zulu date/time group that a satellite will cross the equator northbound, the orbit number, and the longitude that it will cross the equator. A particular orbit starts when the satellite crosses the equator northbound (ascending) and ends just prior to the next ascending node equator crossing. The longitudes are listed in degrees east longitude, i.e., a negative number in this column is a west longitude.

To use the predictor, first select an equator crossing from the table and then rotate the satellite overlay to position the satellite subtrack over the selected equator crossing longitude. The predictor now represents the satellite ground track for the selected orbit. Subsequent and previous orbit depictions can be obtained by using the "next pass" index.

For subsequent orbits... mark or note the longitude beneath the "next pass" index and rotate the overlay clockwise to position the satellite subtrack over the new equator crossing longitude. For previous orbits, rotate the overlay counterclockwise to position the "next pass" index over the present equator crossing. The ground track for the previous pass will be to the right of the original orbit, and the subtrack for subsequent orbits will be to the left of the original equator crossing. One can do this all the way around the wheel without sacrificing a great deal of accuracy.

So far we have just looked at positioning the overlay to obtain a depiction of a satellite ground track for a selected orbit number and then ground tracks for later and earlier orbits. Now let's examine what information we can get from the depiction. When the subtrack intersects a LUT coverage circle, the LUT will receive signals from the satellite for the time period that the subtrack is within a coverage circle. An ELT/EPIRB is visible to the satellite when it lies within the antenna coverage limits (red lines). Mutual visibility occurs when an ELT/EPIRB is within the satellites field-of-view at the same time that the satellite subtrack lies within a LUT coverage circle. From this, we can see for a selected orbit if a spacecraft will be seen by a LUT and approximately where ELTs/EPIRBs must be located to be processed by a LUT. The predictor can be used for more sophisticated problems such as approximate AOS and LOS at a LUT, next time an ELT/EPIRB will be in mutual visibility, and when/if an area of interest will be seen by a satellite and a LUT.

To determine approximate AOS and LOS at a LUT, refer to the equator crossing table and note the time (in zulu) that the satellite will cross the equator. Next, position the overlay as previously discussed and count the yellow lines from the equator to the point at which the subtrack intersects the LUT coverage circle. Add the number of minutes to the time of equator crossing and you have the approximate AOS. Continue counting the yellow lines until the subtrack exits the LUT circle and add them to the AOS time and you have the approximate LOS as well as the approximate duration of the pass. (See example 1.)

Finding out when the next time an ELT/EPIRB will be in mutual visibility of the satellite and LUT is simply a combination of the above two tasks. From the original orbit, move the overlay clockwise orbit-by-orbit using the "next pass" index until mutual visibility is established and then reference the equator crossing table for the time of equator crossing using the longitude now under the ascending node. By counting the minutes since equator crossing and adding them to the time of equator crossing, one comes up with the approximate time the ELT/EPIRB will next be in mutual visibility. (See example 2.)

Using the orbit predictor to determine when and if an area of interest will be viewed by the satellite and the LUT is a bit more complicated. First, locate the area of interest on the base map, refer to the equator crossing table for a longitude within plus or minus 20 degrees that has an equator crossing time within the appropriate time frame, position the overlay at the selected longitude and determine if mutual visibility will exist. (See example 3.) If there is not mutual visibility on that orbit, rotate the overlay using the "next pass" index until you determine that mutual visibility exists or that the interest area is too distant from a LUT or the satellite subtrack for mutual visibility to exist.

EXAMPLE NO. 1

1. Refer to the equator crossing table for time and longitude of the desired equator crossing:

TIME (GMT)	E. LONGITUDE	ORBIT
day hr mn sc	deg.dg	
292 9 32 4	19.94	1523
292 11 17 26	-6.52	1524
292 13 2 48	-32.99	1525
292 14 48 9	-59.45	1526 <
292 16 33 31	-85.92	1527
292 18 18 52	-112.38	1528

From the equator crossing table, select orbit number 1526. The zulu date/time group for the equator crossing is 292 (19 Oct) 1448:09. The longitude of the equator crossing is 59.45 W.

2. Position the overlay so the subtrack coincides with the northbound equator crossing and then count the number of yellow lines (minutes) from equator crossing to the point where the subtrack enters a LUT circle (AOS) and exits a LUT circle (LOS).

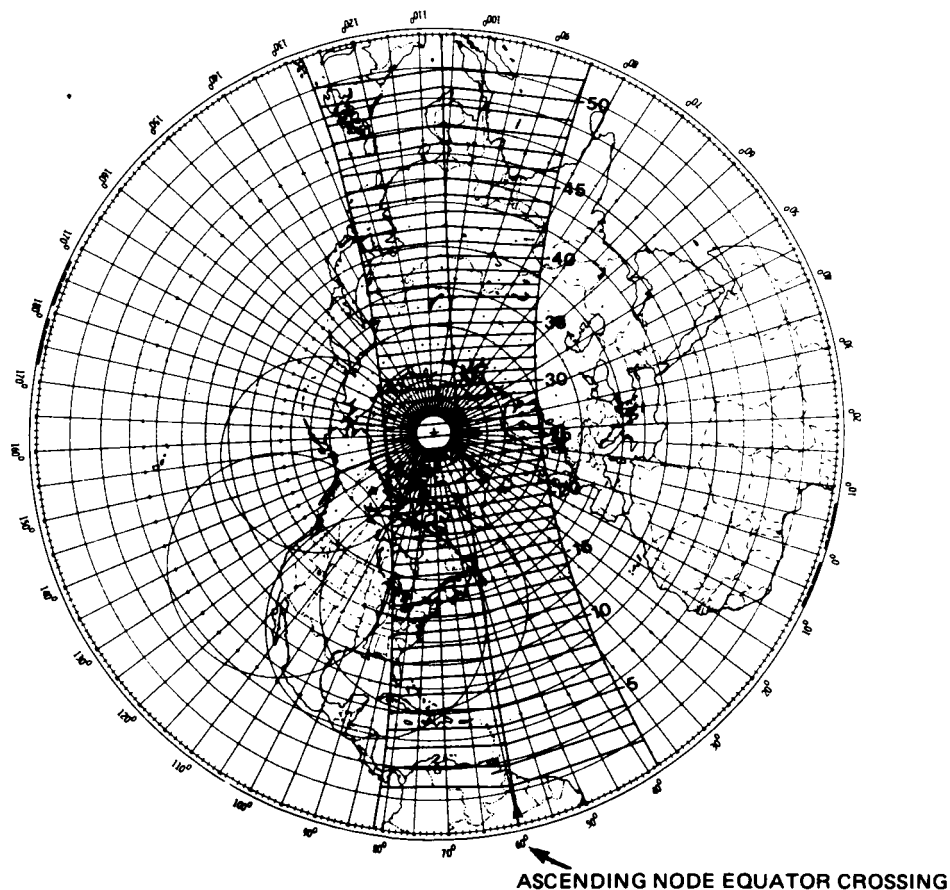


Figure 1

Position the overlay so the ascending node is set at 59.45 W. Now count the number of yellow lines from the equator until the subtrack intersects a LUT circle. In this case the subtrack intersects a lut circle 5 minutes after crossing the equator, the subtrack lies within the LUT circle for 14 minutes before exiting. Adding these times to the equator crossing time of 1448:09 yields an approximate AOS of 1453:09 and an approximate LOS of 1504:09.

EXAMPLE NO. 2

1. From the original orbit move the overlay clockwise using the "next pass" index until mutual visibility is established.

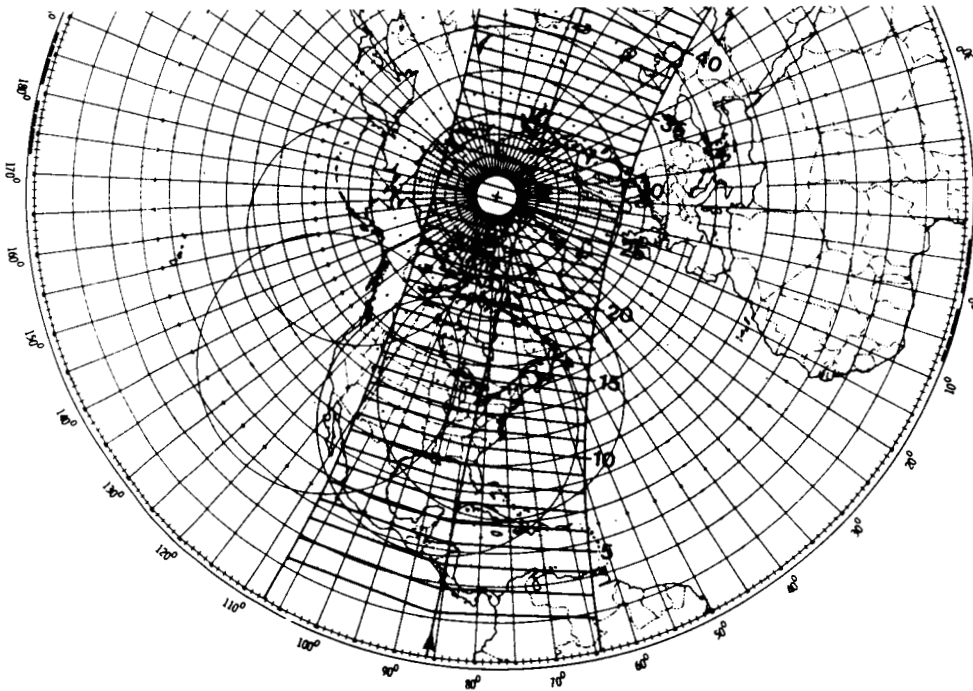


Figure 2

Assume there is an ELT located at 40 00.0 N. and 080 00.0 W. The original orbit (1526) is within mutual visibility, and we want to know the next time the ELT will be in mutual visibility. The "next pass" index is at approximately 087 W. rotate the overlay until the subtrack coincides with 087 W.

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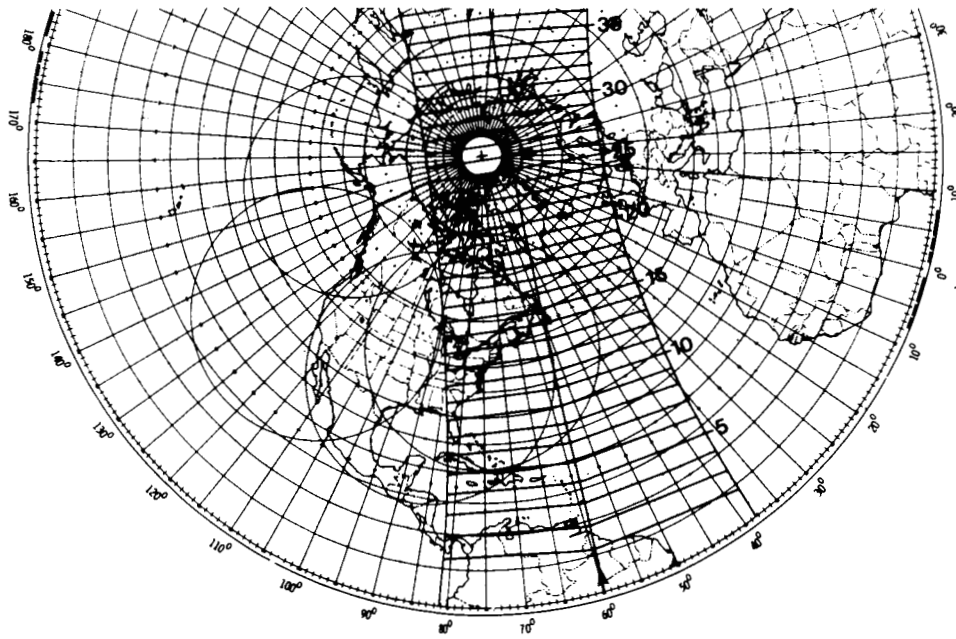


Figure 3

By looking at the subtrack and LUT circle, we see that the satellite will see the ELT and LUT on the next orbit (#1528). Adding the times to the equator crossing time (1633:31) gives us an approximate AOS of 1637, a 16 minute pass with an approximate LOS of 1653.

EXAMPLE NO. 3

SCENARIO: Assume you are interested in using the SARSAT system to locate the possible wreckage of a light aircraft that departed Charleston, South Carolina, enroute to Roanoke, Virginia. The aircraft departed Charleston at 1300Z on 19 October 1982 and never reached Roanoke.

1. Locate the route of flight or suspected ELT/EPIRB position on the base map and note the approximate longitude.

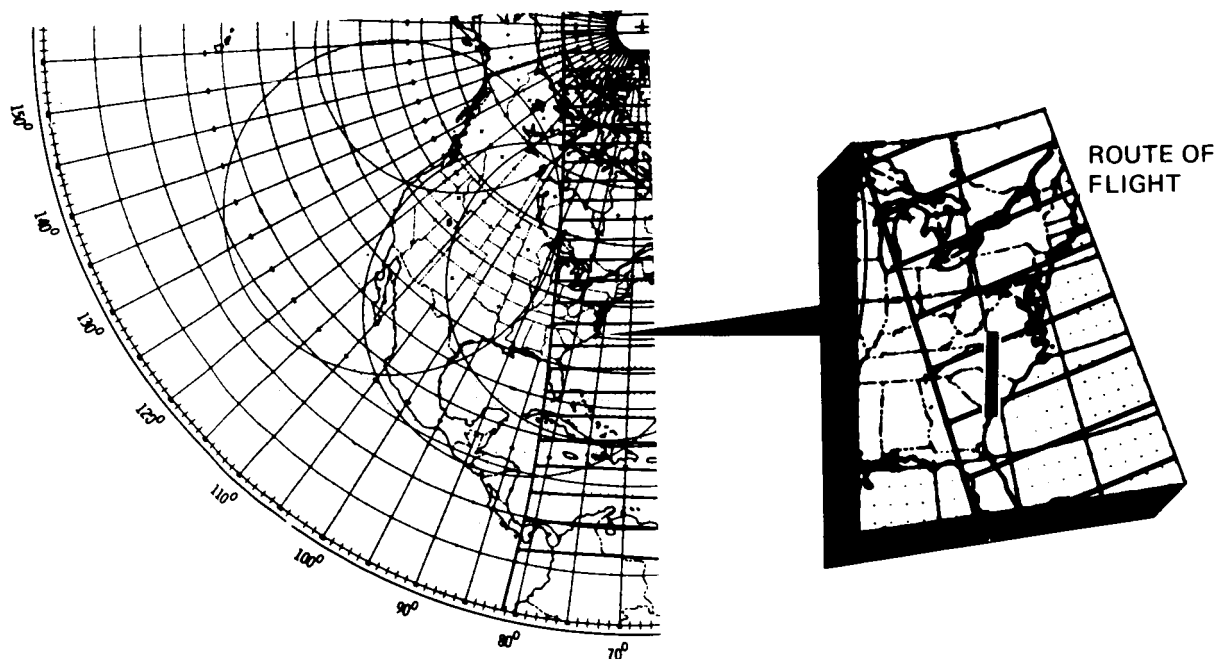


Figure 4

The route of flight is marked in the expanded box: approximate longitude is 080 W.

2. Refer to the equator crossing table and select an orbit within 20 degrees of the approximate longitude and within the appropriate time frame.

TIME (GMT)	E. LONGITUDE	ORBIT
day hr mn sc	deg.dg	
292 11 17 26	-6.52	1524
292 13 2 48	-32.99	1525
292 14 48 9	-59.45	1526
292 16 33 31	-85.92	1527
292 18 88 52	-112.38	1528

From the table there are two orbits that are within plus or minus 20 degrees of the route of flight; 1526 and 1527. Orbit #1526 is the earliest (1448Z) and is within our time frame.

3. Position the overlay at the selected longitude and determine if mutual visibility exists or will exist.

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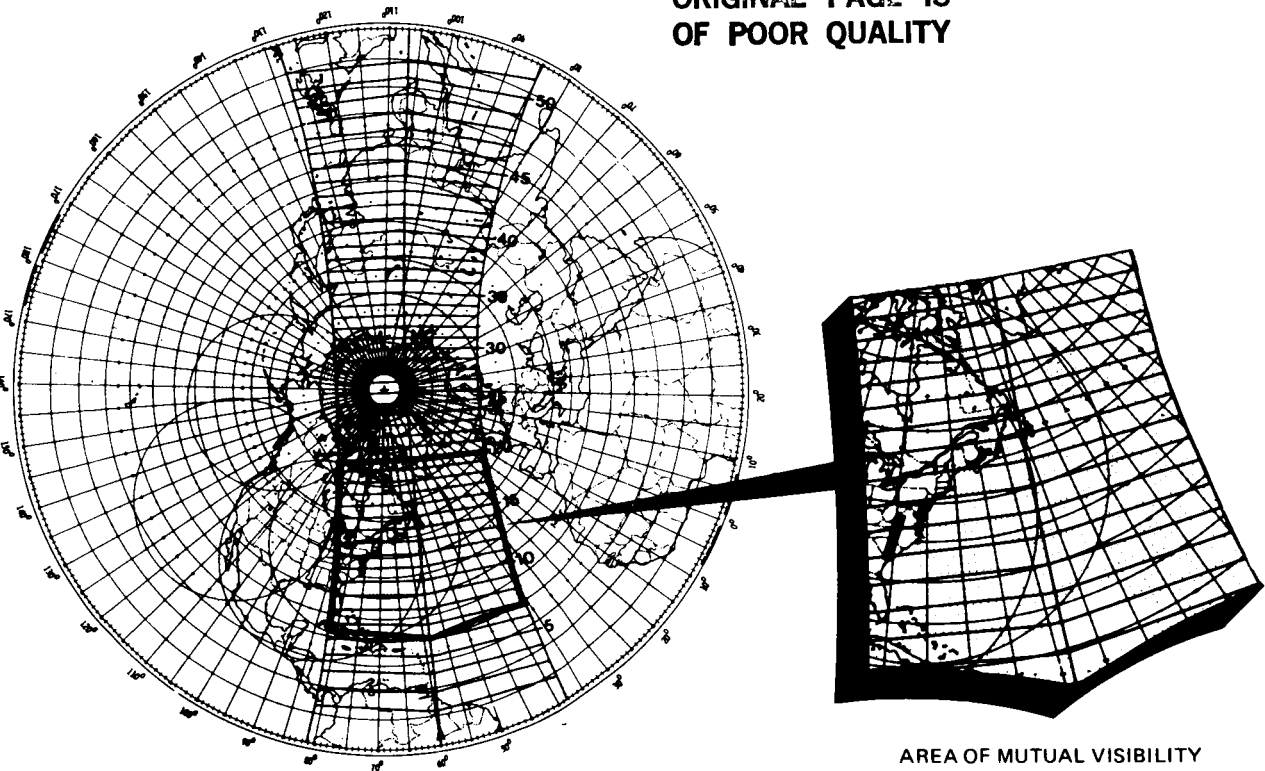


Figure 5

Remember, mutual visibility exists when the ELT/EPIRB is within the satellite antenna swath and the satellite subtrack is within a LUT circle. We can see that the ground track is within the LUT circle. Also, the route of flight we are interested in is within the antenna swath at the same time the ground track is within the LUT circle. Therefore, mutual visibility exists on orbit #1526.

CALENDAR 1984
DAYS OF WEEK AND DAYS OF THE YEAR

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	SU 1	W 32	TH 61	SU 92	TU 122	F 153	SU 183	W 214	SA 245	M 275	TH 306	SA 336
2	M 2	TH 33	F 62	M 93	W 123	SA 154	M 184	TH 215	SU 245	TU 276	F 307	SU 337
3	TU 3	F 34	SA 63	TU 94	TH 124	SU 155	TU 185	F 216	MO 246	W 277	SA 308	MO 338
4	W 4	SA 35	SU 64	W 95	F 125	M 156	W 186	SA 217	TU 247	TH 278	SU 309	TU 339
5	TH 5	SU 36	MO 65	TH 96	SA 126	TU 157	TH 187	SU 218	W 248	F 279	M 310	W 340
6	F 6	M 37	TU 66	F 97	SU 127	W 158	F 188	M 219	TH 249	SA 280	TU 311	TH 341
7	SA 7	TU 38	W 67	SA 98	M 128	TH 159	SA 189	TU 220	F 250	SU 281	W 312	F 342
8	SU 8	W 39	TH 68	SU 99	TU 129	F 160	SU 190	W 221	SA 251	M 282	TH 313	SA 343
9	M 9	TH 40	F 69	M 100	W 130	SA 161	M 191	TH 222	SU 252	TU 283	F 314	SU 344
10	TU 10	F 41	SA 70	TU 101	TH 131	SU 162	TU 192	F 223	M 253	W 284	SA 315	M 345
11	W 11	SA 42	SU 71	W 102	F 132	M 163	W 193	SA 224	TU 254	TH 285	SU 316	TU 346
12	TH 12	SU 43	M 72	TH 103	SA 133	TU 164	TH 194	SU 225	W 255	F 286	M 317	W 347
13	F 13	M 44	TU 73	F 104	SU 134	W 165	F 195	M 226	TH 256	SA 287	TU 318	TH 348
14	SA 14	TU 45	W 74	SA 105	M 135	TH 166	SA 196	TU 227	F 257	SU 288	W 319	F 349
15	SU 15	W 46	TH 75	SU 106	TU 136	F 167	SU 197	W 228	SA 258	M 289	TH 320	SA 350
16	M 16	TH 47	F 76	M 107	W 137	SA 168	M 198	TH 229	SU 259	TU 290	F 321	SU 351
17	TU 17	F 48	SA 77	TU 108	TH 138	SU 169	TU 199	F 230	M 260	W 291	SA 322	M 352
18	W 18	SA 49	SU 78	W 109	F 139	M 170	W 200	SA 231	TU 261	TH 292	SU 323	TU 353
19	TH 19	SU 50	M 79	TH 110	SA 140	TU 171	TH 201	SU 232	W 262	F 293	M 324	W 354
20	F 20	M 51	TU 80	F 111	SU 141	W 172	F 202	M 233	TH 263	SA 294	TU 325	TH 355
21	SA 21	TU 52	W 81	SA 112	M 142	TH 173	SA 203	TU 234	F 264	SU 295	W 326	F 356
22	SU 22	W 53	TH 82	SU 113	TU 143	F 174	SU 204	W 235	SA 265	M 296	TH 327	SA 357
23	M 23	TH 54	F 83	M 114	W 144	SA 175	M 205	TH 236	SU 266	TU 297	F 328	SU 358
24	TU 24	F 55	SA 84	TU 115	TH 145	SU 176	TU 206	F 237	M 267	W 298	SA 329	M 359
25	W 25	SA 56	SU 85	W 116	F 146	M 177	W 207	SA 238	TU 268	TH 299	SU 330	TU 360
26	TH 26	SU 57	M 86	TH 117	SA 147	TU 178	TH 208	SU 239	W 269	F 300	M 331	W 361
27	F 27	M 58	TU 87	F 118	SU 148	W 179	F 209	M 240	TH 270	SA 301	TU 332	TH 362
28	SA 28	TU 59	W 88	SA 119	M 149	TH 180	SA 210	TU 241	F 271	SU 302	W 333	F 363
29	SU 29	W 60	TH 89	SU 120	TU 150	F 181	SU 211	W 242	SA 272	M 303	TH 334	SA 364
30	M 30		F 90	M 121	W 151	SA 182	M 212	TH 243	SU 274	TU 304	F 335	SU 365
31	TU 31		SA 91		TH 152		TU 213	F 244		W 305		M 366

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CALENDAR 1985
DAYS OF WEEK AND DAYS OF THE YEAR

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	TU 1	F 32	F 60	M 91	W 121	SA 152	TU 182	F 213	TU 244	TH 274	SU 305	TU 335
2	W 2	SA 33	SA 61	TU 92	TH 122	SU 153	W 183	SA 214	W 245	F 275	M 306	W 336
3	TH 3	SU 34	SU 62	W 93	F 123	M 154	TH 184	SU 215	TH 246	SA 276	TU 307	TH 337
4	F 4	M 35	M 63	TH 94	SA 124	TU 155	F 185	M 216	F 247	SU 277	W 308	F 338
5	SA 5	TU 36	TU 64	F 95	SU 125	W 156	SA 186	TU 217	SA 248	M 278	TH 309	SA 339
6	SU 6	W 37	W 65	SA 96	M 126	Th 157	SU 187	W 218	SU 249	TU 279	F 310	SU 340
7	M 7	TH 38	TH 66	SU 97	TU 127	F 158	M 188	TH 219	M 250	W 280	SA 311	M 341
8	TU 8	F 39	F 67	M 98	W 128	SA 159	TU 189	F 220	TU 251	TH 281	SU 312	TU 342
9	W 9	SA 40	SA 68	TU 99	TH 129	SU 160	W 190	SA 221	W 252	F 282	M 313	W 343
10	TH 10	SU 41	SU 69	W 100	F 130	M 161	TH 191	SU 222	TH 253	SA 283	TU 314	TH 344
11	F 11	M 42	M 70	TH 101	SA 131	TU 162	F 192	M 223	F 254	SU 284	W 315	F 345
12	SA 12	TU 43	TU 71	F 102	SU 132	W 163	SA 193	TU 224	SA 255	M 285	TH 316	SA 346
13	SU 13	W 44	W 73	SA 103	M 133	TH 164	SU 194	W 225	SU 256	TU 286	F 317	SU 347
14	M 14	TH 45	TH 74	SU 104	TU 134	F 165	M 195	TH 226	M 257	W 287	SA 318	M 348
15	TU 15	F 46	F 75	M 105	W 135	SA 166	TU 196	F 227	TU 258	TH 288	SU 319	TU 349
16	W 16	SA 47	SA 76	TU 106	TH 136	SU 167	W 197	SA 228	W 259	F 289	M 320	W 350
17	TH 17	SU 48	SU 77	W 107	F 137	M 168	TH 198	SU 229	TH 260	SA 290	TU 321	TH 351
18	F 18	M 49	M 78	TH 108	SA 138	TU 169	F 199	M 230	F 261	SU 291	W 322	F 352
19	SA 19	TU 50	TU 79	F 109	SU 139	W 170	SA 200	TU 231	SA 262	M 292	TH 323	SA 353
20	SU 20	W 51	W 80	SA 110	M 140	TH 171	SU 201	W 232	SU 263	TU 293	F 324	SU 354
21	M 21	TH 52	TH 81	SU 111	TU 141	F 172	M 202	TH 233	M 264	W 294	SA 325	M 355
22	TU 22	F 53	F 82	M 112	W 142	SA 173	TU 203	F 234	TU 265	TH 295	SU 326	TU 356
23	W 23	SA 54	SA 83	TU 113	TH 143	SU 174	W 204	SA 235	W 266	F 296	M 327	W 357
24	TH 24	SU 55	SU 84	W 114	F 144	M 175	TH 205	SU 236	TH 267	SA 297	TU 328	TH 358
25	F 25	M 56	M 85	TH 115	SA 145	TU 176	F 206	M 237	F 268	SU 298	W 329	F 359
26	SA 26	TU 57	TU 85	F 116	SU 146	W 177	SA 207	TU 238	SA 269	M 299	TH 330	SA 360
27	SU 27	W 58	W 86	SA 117	M 147	TH 178	SU 208	W 239	SU 270	TU 300	F 331	SU 361
28	M 28	TH 59	TH 87	SU 118	TU 148	F 179	M 209	TH 240	M 271	W 301	SA 332	M 362
29	TU 29		F 88	M 119	W 149	SA 180	TU 210	F 241	TU 272	TH 302	SU 333	TU 363
30	W 30		SA 89	TU 120	TH 150	SU 181	W 211	SA 242	W 273	F 303	M 334	W 364
31	TH 31		SU 90		F 151		TH 212	M 243		SA 304		TH 365

Satellite 1			Satellite 2			Satellite 3		
TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg. dg		day hr mn sc	deg. dg		day hr mn sc	deg. dg	
289 01:20:07	-25.61	11457	289 00:03:47	77.95	7825	289 00:16:28	120.69	1582
289 03:05:28	-52.07	11458	289 01:48:40	51.60	7826	289 02:01:24	94.33	1583
289 04:50:49	-78.54	11459	289 03:33:32	25.25	7827	289 03:46:20	67.97	1584
289 06:36:10	-105.00	11460	289 05:18:25	-1.09	7828	289 05:31:15	41.61	1585
289 08:21:32	-131.47	11461	289 07:03:18	-27.44	7829	289 07:16:11	15.26	1586
289 10:06:53	-157.93	11462	289 08:48:11	-53.78	7830	289 09:01:07	-11.10	1587
289 11:52:14	175.60	11463	289 10:33:04	-80.13	7831	289 10:46:03	-37.46	1588
289 13:37:35	149.14	11464	289 12:17:56	-106.47	7832	289 12:30:59	-63.82	1589
289 15:22:57	122.68	11465	289 14:02:49	-132.82	7833	289 14:15:55	-90.18	1590
289 17:08:18	96.21	11466	289 15:47:42	-159.16	7834	289 16:00:50	-116.54	1591
289 18:53:39	69.75	11467	289 17:32:35	174.49	7835	289 17:45:46	-142.89	1592
289 20:39:01	43.28	11468	289 19:17:28	148.15	7836	289 19:30:42	-169.25	1593
289 22:24:22	16.92	11469	289 21:02:20	121.80	7837	289 21:15:38	164.39	1594
			289 22:47:13	95.45	7838	289 23:00:34	138.03	1595
290 00:09:43	-7.65	11470	290 00:32:06	69.11	7839	290 00:45:30	111.68	1596
290 01:55:04	-36.11	11471	290 02:16:59	42.76	7840	290 02:30:26	85.32	1597
290 03:40:26	-62.57	11472	290 04:01:52	16.42	7841	290 04:15:21	58.96	1598
290 05:25:47	-89.04	11473	290 05:46:44	-9.93	7842	290 06:00:17	32.60	1599
290 07:11:08	-115.50	11474	290 07:31:37	-36.28	7843	290 07:45:13	6.24	1600
290 08:56:29	-141.97	11475	290 09:16:30	-62.62	7844	290 09:30:09	-20.12	1601
290 10:41:51	-168.43	11476	290 11:01:23	-88.97	7845	290 11:15:05	-46.47	1602
290 12:27:12	165.11	11477	290 12:46:16	-115.31	7846	290 13:00:01	-72.83	1603
290 14:12:33	138.64	11478	290 14:31:08	-141.66	7847	290 14:44:56	-99.19	1604
290 15:57:54	112.17	11479	290 16:16:01	-168.00	7848	290 16:29:52	-125.55	1605
290 17:43:16	85.71	11480	290 18:00:54	165.65	7849	290 18:14:48	-151.91	1606
290 19:28:37	59.25	11481	290 19:45:47	139.31	7850	290 19:59:44	-178.27	1607
290 21:13:58	32.78	11482	290 21:30:40	112.96	7851	290 21:44:40	155.38	1608
290 22:59:19	6.32	11483	290 23:15:32	86.61	7852	290 23:29:36	129.02	1609
291 00:44:41	-20.14	11484	291 01:00:25	60.27	7853	291 01:14:32	102.66	1610
291 02:30:02	-46.61	11485	291 02:45:18	33.92	7854	291 02:59:27	76.30	1611
291 04:15:23	-73.07	11486	291 04:30:11	7.58	7855	291 04:44:23	49.94	1612
291 06:00:45	-99.54	11487	291 06:15:04	-18.77	7856	291 06:29:19	23.59	1613
291 07:46:06	-126.00	11488	291 07:59:56	-45.11	7857	291 08:14:15	-2.77	1614
291 09:31:27	-152.47	11489	291 09:44:49	-71.46	7858	291 09:59:11	-29.13	1615
291 11:16:48	-178.93	11490	291 11:29:42	-97.80	7859	291 11:44:07	-55.49	1616
291 13:02:10	154.61	11491	291 13:14:35	-124.15	7860	291 13:29:02	-81.85	1617
291 14:47:31	128.14	11492	291 14:59:28	-150.49	7861	291 15:13:58	-108.21	1618
291 16:32:52	101.68	11493	291 16:44:20	-176.84	7862	291 16:58:54	-134.56	1619
291 18:18:13	75.21	11494	291 18:29:13	156.81	7863	291 18:43:50	-160.92	1620
291 20:03:35	48.75	11495	291 20:14:06	130.47	7864	291 20:28:46	172.72	1621
291 21:48:56	22.28	11496	291 21:58:59	104.12	7865	291 22:13:42	146.36	1622
291 23:34:17	-4.18	11497	291 23:43:52	77.78	7866	291 23:58:38	120.00	1623
292 01:19:38	-30.65	11498	292 01:28:44	51.43	7867	292 01:43:33	93.64	1624
292 03:05:00	-57.11	11499	292 03:13:37	25.08	7868	292 03:28:29	67.29	1625
292 04:50:21	-83.57	11500	292 04:58:30	-1.26	7869	292 05:13:25	40.93	1626
292 06:35:42	-110.04	11501	292 06:43:23	-27.61	7870	292 06:58:21	14.57	1627
292 08:21:03	-136.50	11502	292 08:28:16	-53.95	7871	292 08:43:17	-11.79	1628
292 10:06:25	-162.97	11503	292 10:13:08	-80.30	7872	292 10:28:13	-38.14	1629
292 11:51:46	170.57	11504	292 11:58:01	-106.64	7873	292 12:13:08	-64.51	1630
292 13:37:07	144.10	11505	292 13:42:54	-132.99	7874	292 13:58:04	-90.86	1631
292 15:22:28	117.64	11506	292 15:27:47	-159.33	7875	292 15:43:00	-117.22	1632
292 17:07:50	91.18	11507	292 17:12:40	174.32	7876	292 17:27:56	-143.58	1633
292 18:53:11	64.71	11508	292 18:57:32	147.97	7877	292 19:12:52	-169.94	1634
292 20:38:32	38.25	11509	292 20:42:25	121.63	7878	292 20:57:48	163.71	1635
292 22:23:53	11.78	11510	292 22:27:18	95.28	7879	292 22:42:44	137.35	1636

West longitude is negative (—)

Satellite 1

Satellite 2

Satellite 3

TIME (GMT) E. LONG. ORBIT
day hr mn sc deg. dg

293 00:09:15 -14.68 11511
293 01:54:36 -41.15 11512
293 03:39:57 -67.61 11513
293 05:25:19 -94.07 11514
293 07:10:40 -120.54 11515
293 08:56:01 -147.00 11516
293 10:41:22 -173.47 11517
293 12:26:44 -160.07 11518
293 14:12:05 133.60 11519
293 15:57:26 107.14 11520
293 17:42:47 80.67 11521
293 19:28:09 54.21 11522
293 21:13:30 27.75 11523
293 22:58:51 1.28 11524

294 00:44:12 -25.18 11525
294 02:29:34 -51.65 11526
294 04:14:55 -78.11 11527
294 06:00:16 -104.58 11528
294 07:45:37 -131.04 11529
294 09:30:59 -157.50 11530
294 11:16:20 176.03 11531
294 13:01:41 149.57 11532
294 14:47:02 123.10 11533
294 16:32:24 96.64 11534
294 18:17:45 70.18 11535
294 20:03:06 43.71 11536
294 21:48:27 17.25 11537
294 23:33:49 -9.22 11538

295 01:19:10 -35.68 11539
295 03:04:31 -62.15 11540
295 04:49:53 -88.61 11541
295 06:35:14 -115.07 11542
295 08:20:35 -141.54 11543
295 10:05:56 -168.00 11544
295 11:51:18 165.53 11545
295 13:36:39 139.07 11546
295 15:22:00 112.60 11547
295 17:07:21 86.14 11548
295 18:52:43 59.68 11549
295 20:38:04 33.21 11550
295 22:23:25 6.75 11551

296 00:08:46 -19.72 11552
296 01:54:08 -46.18 11553
296 03:39:29 -72.65 11554
296 05:24:50 -99.11 11555
296 07:10:11 -125.58 11556
296 08:55:33 -152.04 11557
296 10:40:54 -178.50 11558
296 12:26:15 155.03 11559
296 14:11:36 128.57 11560
296 15:56:58 102.10 11561
296 17:42:19 75.64 11562
296 19:27:40 49.17 11563
296 21:13:01 22.71 11564
296 22:58:23 -3.75 11565

TIME (GMT) E. LONG. ORBIT
day hr mn sc deg. dg

293 00:12:11 68.94 7880
293 01:57:04 42.59 7881
293 03:41:56 16.25 7882
293 05:26:49 -10.10 7883
293 07:11:42 -36.44 7884
293 08:56:35 -62.79 7885
293 10:41:28 -89.13 7886
293 12:26:20 -115.48 7887
293 14:11:13 -141.83 7888
293 15:56:06 -168.17 7889
293 17:40:59 165.48 7890
293 19:25:52 139.14 7891
293 21:10:44 112.79 7892
293 22:55:37 86.45 7893

294 00:40:30 60.10 7894
294 02:25:23 33.76 7895
294 04:10:16 7.41 7896
294 05:55:08 -18.94 7897
294 07:40:01 -45.28 7898
294 09:24:54 -71.63 7899
294 11:09:47 -97.97 7900
294 12:54:39 -124.32 7901
294 14:39:32 -150.67 7902
294 16:24:25 -177.01 7903
294 18:09:18 156.64 7904
294 19:54:11 130.30 7905
294 21:39:03 103.95 7906
294 23:23:56 77.61 7907

295 01:08:49 51.26 7908
295 02:53:42 24.92 7909
295 04:38:35 -1.43 7910
295 06:23:27 -27.78 7911
295 08:08:20 -54.12 7912
295 09:53:13 -80.47 7913
295 11:38:06 -106.81 7914
295 13:22:59 -133.16 7915
295 15:07:51 -159.50 7916
295 16:52:44 174.15 7917
295 18:37:37 147.81 7918
295 20:22:30 121.46 7919
295 22:07:23 95.12 7920
295 23:52:15 68.77 7921

296 01:37:08 42.42 7922
296 03:22:01 16.08 7923
296 05:06:54 -10.27 7924
296 06:51:47 -36.61 7925
296 08:36:39 -62.96 7926
296 10:21:32 -89.30 7927
296 12:06:25 -115.65 7928
296 13:51:18 -141.99 7929
296 15:36:11 -168.34 7930
296 17:21:03 165.31 7931
296 19:05:56 138.97 7932
296 20:50:49 112.62 7933
296 22:35:42 86.28 7934

TIME (GMT) E. LONG. ORBIT
day hr mn sc deg. dg

293 00:27:39 110.99 1637
293 02:12:35 84.63 1638
293 03:57:31 58.27 1639
293 05:42:27 31.91 1640
293 07:27:23 5.56 1641
293 09:12:19 -20.80 1642
293 10:57:14 -47.16 1643
293 12:42:10 -73.52 1644
293 14:27:06 -99.88 1645
293 16:12:02 -126.24 1646
293 17:56:58 -152.59 1647
293 19:41:54 -178.95 1648
293 21:26:50 154.69 1649
293 23:11:45 128.33 1650

294 00:56:41 101.97 1651
294 02:41:37 75.62 1652
294 04:26:33 49.26 1653
294 06:11:29 22.90 1654
294 07:56:25 -3.46 1655
294 09:41:20 -29.82 1656
294 11:26:16 -56.18 1657
294 13:11:12 -82.53 1658
294 14:56:08 -108.89 1659
294 16:41:04 -135.25 1660
294 18:26:00 -161.61 1661
294 20:10:56 172.03 1662
294 21:55:51 145.67 1663
294 23:40:47 119.32 1664

295 01:25:43 92.96 1665
295 03:10:39 66.60 1666
295 04:55:35 40.24 1667
295 06:40:31 13.89 1668
295 08:25:27 -12.47 1669
295 10:10:22 -38.83 1670
295 11:55:18 -65.19 1671
295 13:40:14 -91.55 1672
295 15:25:10 -117.91 1673
295 17:10:06 -144.26 1674
295 18:55:02 -170.62 1675
295 20:39:57 163.02 1676
295 22:24:53 136.66 1677

296 00:09:49 110.30 1678
296 01:54:45 83.94 1679
296 03:39:41 57.59 1680
296 05:24:37 31.23 1681
296 07:09:33 4.87 1682
296 08:54:28 -21.49 1683
296 10:39:24 -47.85 1684
296 12:24:20 -74.21 1685
296 14:09:16 -100.56 1686
296 15:54:12 -126.92 1687
296 17:39:08 -153.28 1688
296 19:24:04 -179.64 1689
296 21:08:59 154.00 1690
296 22:53:55 127.65 1691

West longitude is negative (—)

Satellite 1			Satellite 2			Satellite 3		
TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg.dg		day hr mn sc	deg.dg		day hr mn sc	deg.dg	
297 00:43:44	-30.22	11566	297 00:20:34	59.93	7935	297 00:38:51	101.29	1692
297 02:29:05	-56.68	11567	297 02:05:27	33.59	7936	297 02:23:47	74.93	1693
297 04:14:26	-83.15	11568	297 03:50:20	7.24	7937	297 04:08:43	48.57	1694
297 05:59:48	-109.61	11569	297 05:35:13	-19.10	7938	297 05:53:39	22.21	1695
297 07:45:09	-136.07	11570	297 07:20:06	-45.45	7939	297 07:38:34	-4.15	1696
297 09:30:30	-162.54	11571	297 09:04:58	-71.80	7940	297 09:23:30	-30.50	1697
297 11:15:51	170.99	11572	297 10:49:51	-98.14	7941	297 11:08:26	-56.86	1698
297 13:01:13	144.53	11573	297 12:34:44	-124.49	7942	297 12:53:22	-83.22	1699
297 14:46:34	118.07	11574	297 14:19:37	-150.83	7943	297 14:38:18	-109.58	1700
297 16:31:55	91.60	11575	297 16:04:30	-177.18	7944	297 16:23:14	-135.94	1701
297 18:17:16	65.14	11576	297 17:49:22	156.47	7945	297 18:08:10	-162.29	1702
297 20:02:38	38.68	11577	297 19:34:15	130.13	7946	297 19:53:05	171.35	1703
297 21:47:59	12.21	11578	297 21:19:08	103.78	7947	297 21:38:01	144.99	1704
297 23:33:20	-14.25	11579	297 23:04:01	77.44	7948	297 23:22:57	118.63	1705
298 01:18:42	-40.72	11580	298 00:48:54	51.09	7949	298 01:07:53	92.27	1706
298 03:04:03	-67.18	11581	298 02:33:46	24.75	7950	298 02:52:49	65.91	1707
298 04:49:24	-93.65	11582	298 04:18:39	-1.60	7951	298 04:37:45	39.56	1708
298 06:34:45	-120.11	11583	298 06:03:32	-27.94	7952	298 06:22:41	13.20	1709
298 08:20:07	-146.57	11584	298 07:48:25	-54.29	7953	298 08:07:36	-13.16	1710
298 10:05:28	-173.04	11585	298 09:33:18	-80.63	7954	298 09:52:32	-39.52	1711
298 11:50:49	160.50	11586	298 11:18:10	-106.98	7955	298 11:37:28	-65.88	1712
298 13:36:10	134.03	11587	298 13:03:03	-133.33	7956	298 13:22:24	-92.23	1713
298 15:21:32	107.57	11588	298 14:47:56	-159.67	7957	298 15:07:20	-118.59	1714
298 17:06:53	81.10	11589	298 16:32:49	173.98	7958	298 16:52:16	-144.95	1715
298 18:52:14	54.64	11590	298 18:17:41	147.64	7959	298 18:37:11	-171.31	1716
298 20:37:35	28.17	11591	298 20:02:34	121.29	7960	298 20:22:07	162.33	1717
298 22:22:57	1.71	11592	298 21:47:27	94.95	7961	298 22:07:03	135.97	1718
			298 23:32:20	68.60	7962	298 23:51:59	109.62	1719
299 00:08:18	-24.75	11593	299 01:17:13	42.26	7963	299 01:36:55	83.26	1720
299 01:53:39	-51.22	11594	299 03:02:05	15.91	7964	299 03:21:51	56.90	1721
299 03:39:00	-77.68	11595	299 04:46:58	-10.44	7965	299 05:06:47	30.54	1722
299 05:24:22	-104.15	11596	299 06:31:51	-36.78	7966	299 06:51:42	4.18	1723
299 07:09:43	-130.61	11597	299 08:16:44	-63.13	7967	299 08:36:38	-22.18	1724
299 08:55:04	-157.08	11598	299 10:01:37	-89.47	7968	299 10:21:34	-48.53	1725
299 10:40:25	176.46	11599	299 11:46:29	-115.82	7969	299 12:06:30	-74.89	1726
299 12:25:47	150.00	11600	299 13:31:22	-142.16	7970	299 13:51:26	-101.25	1727
299 14:11:08	123.53	11601	299 15:16:15	-168.51	7971	299 15:36:22	-127.61	1728
299 15:56:29	97.07	11602	299 17:01:08	165.15	7972	299 17:21:18	-153.96	1729
299 17:41:50	70.60	11603	299 18:46:01	138.80	7973	299 19:06:13	179.67	1730
299 19:27:12	44.14	11604	299 20:30:53	112.45	7974	299 20:51:09	153.32	1731
299 21:12:33	17.68	11605	299 22:15:46	86.11	7975	299 22:36:05	126.96	1732
299 22:57:54	-8.79	11606						
300 00:43:15	-35.25	11607	300 00:00:39	59.76	7976	300 00:21:01	100.60	1733
300 02:28:37	-61.72	11608	300 01:45:32	33.42	7977	300 02:05:57	74.24	1734
300 04:13:58	-88.18	11609	300 03:30:24	7.07	7978	300 03:50:53	47.89	1735
300 05:59:19	-114.65	11610	300 05:15:17	-19.27	7979	300 05:35:49	21.53	1736
300 07:44:40	-141.11	11611	300 07:00:10	-45.62	7980	300 07:20:44	-4.83	1737
300 09:30:02	-167.57	11612	300 08:45:03	-71.96	7981	300 09:05:40	-31.19	1738
300 11:15:23	165.96	11613	300 10:29:56	-98.31	7982	300 10:50:36	-57.55	1739
300 13:00:44	139.50	11614	300 12:14:48	-124.66	7983	300 12:35:32	-83.91	1740
300 14:46:05	113.03	11615	300 13:59:41	-151.00	7984	300 14:20:28	-110.26	1741
300 16:31:27	86.57	11616	300 15:44:34	-177.35	7985	300 16:05:24	-136.62	1742
300 18:16:48	60.10	11617	300 17:29:27	156.31	7986	300 17:50:20	-162.98	1743
300 20:02:09	33.64	11618	300 19:14:20	129.96	7987	300 19:35:15	170.66	1744
300 21:47:30	7.17	11619	300 20:59:12	103.62	7988	300 21:20:11	144.30	1745
300 23:32:52	-19.29	11620	300 22:44:05	77.27	7989	300 23:05:07	117.94	1746

West longitude is negative (-)

Satellite 1			Satellite 2			Satellite 3		
TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg.dg		day hr mn sc	deg.dg		day hr mn sc	deg.dg	
301 01:18:13	-45.75	11621	301 00:50:03	91.59	1747	301 00:28:58	50.93	7990
301 03:03:34	-72.22	11622	301 02:34:59	65.23	1748	301 02:13:51	24.58	7991
301 04:48:55	-98.68	11623	301 04:19:55	38.87	1749	301 03:58:44	-1.76	7992
301 06:34:17	-125.15	11624	301 06:04:50	12.51	1750	301 05:43:36	-28.11	7993
301 08:19:38	-151.61	11625	301 07:49:46	-13.85	1751	301 07:28:29	-54.46	7994
301 10:04:59	-178.08	11626	301 09:34:42	-40.21	1752	301 09:13:22	-80.80	7995
301 11:50:20	-155.46	11627	301 11:19:38	-66.56	1753	301 10:58:15	-107.15	7996
301 13:35:42	-129.00	11628	301 13:04:34	-92.92	1754	301 12:43:07	-133.49	7997
301 15:21:03	-102.53	11629	301 14:49:30	-119.28	1755	301 14:28:00	-159.84	7998
301 17:06:24	-76.07	11630	301 16:34:26	-145.64	1756	301 16:12:53	-173.82	7999
301 18:51:45	-49.60	11631	301 18:19:21	-172.00	1757	301 17:57:46	-147.47	8000
301 20:37:07	-23.14	11632	301 20:04:17	-161.64	1758	301 19:42:39	-121.13	8001
301 22:22:28	-3.32	11633	301 21:49:13	-135.29	1759	301 21:27:31	-94.78	8002
			301 23:34:09	-108.93	1760	301 23:12:24	-68.43	8003
302 00:07:49	-29.79	11634	302 01:19:05	82.57	1761	302 00:57:17	42.09	8004
302 01:53:10	-56.25	11635	302 03:04:01	56.21	1762	302 02:42:10	15.74	8005
302 03:38:32	-82.72	11636	302 04:48:57	29.86	1763	302 04:27:03	-10.60	8006
302 05:23:53	-109.18	11637	302 06:33:52	3.49	1764	302 06:11:55	-36.95	8007
302 07:09:14	-135.65	11638	302 08:18:48	-22.86	1765	302 07:56:48	-63.29	8008
302 08:54:35	-162.11	11639	302 10:03:44	-49.22	1766	302 09:41:41	-89.64	8009
302 10:39:57	-171.43	11640	302 11:48:40	-75.58	1767	302 11:26:34	-115.98	8010
302 12:25:18	-144.96	11641	302 13:33:36	-101.94	1768	302 13:11:26	-142.33	8011
302 14:10:39	-118.50	11642	302 15:18:32	-128.29	1769	302 14:56:19	-168.68	8012
302 15:56:00	-92.03	11643	302 17:03:28	-154.65	1770	302 16:41:12	-164.98	8013
302 17:41:22	-65.57	11644	302 18:48:23	-178.99	1771	302 18:26:05	-138.63	8014
302 19:26:43	-39.10	11645	302 20:33:19	-152.63	1772	302 20:10:58	-112.29	8015
302 21:12:04	-12.64	11646	302 22:18:15	-126.27	1773	302 21:55:50	-85.94	8016
302 22:57:25	-13.83	11647				302 23:40:43	-59.59	8017
303 00:42:47	-40.29	11648	303 01:25:36	33.25	8018	303 00:03:11	99.91	1774
303 02:28:08	-66.75	11649	303 03:10:29	6.91	8019	303 01:48:07	73.56	1775
303 04:13:29	-93.22	11650	303 04:55:22	-19.44	8020	303 03:33:03	47.20	1776
303 05:58:50	-119.68	11651	303 06:40:14	-45.79	8021	303 05:17:59	20.84	1777
303 07:44:12	-146.14	11652	303 08:25:07	-72.13	8022	303 07:02:54	-5.52	1778
303 09:29:33	-172.61	11653	303 10:10:00	-98.48	8023	303 08:47:50	-31.88	1779
303 11:14:54	-160.93	11654	303 11:54:53	-124.82	8024	303 10:32:46	-58.24	1780
303 13:00:15	-134.46	11655	303 13:39:45	-151.17	8025	303 12:17:42	-84.59	1781
303 14:45:37	-108.00	11656	303 15:24:38	-177.52	8026	303 14:02:38	-110.95	1782
303 16:30:58	-81.53	11657	303 17:09:31	-156.14	8027	303 15:47:34	-137.31	1783
303 18:16:19	-55.07	11658	303 18:54:24	-129.79	8028	303 17:32:30	-163.67	1784
303 20:01:40	-28.60	11659	303 20:39:17	-103.45	8029	303 19:17:25	-169.97	1785
303 21:47:02	-2.14	11660	303 22:24:09	-77.10	8030	303 21:02:21	-143.61	1786
303 23:32:23	-24.32	11661				303 22:47:17	-117.26	1787
304 01:17:44	-50.79	11662	304 00:09:02	50.76	8031	304 00:32:13	90.90	1788
304 03:03:05	-77.25	11663	304 01:53:55	24.41	8032	304 02:17:09	64.54	1789
304 04:48:27	-103.72	11664	304 03:38:48	-1.93	8033	304 04:02:05	38.18	1790
304 06:33:48	-130.18	11665	304 05:23:41	-28.28	8034	304 05:47:01	11.82	1791
304 08:19:09	-156.65	11666	304 07:08:33	-54.63	8035	304 07:31:56	-14.54	1792
304 10:04:30	-176.89	11667	304 08:53:26	-80.97	8036	304 09:16:52	-40.89	1793
304 11:49:52	-150.43	11668	304 10:38:19	-107.32	8037	304 11:01:48	-67.25	1794
304 13:35:13	-123.96	11669	304 12:23:12	-133.66	8038	304 12:46:44	-93.61	1795
304 15:20:34	-97.50	11670	304 14:08:04	-160.01	8039	304 14:31:40	-119.97	1796
304 17:05:55	-71.03	11671	304 15:52:57	-173.65	8040	304 16:16:36	-146.32	1797
304 18:51:17	-44.57	11672	304 17:37:50	-147.30	8041	304 18:01:32	-172.68	1798
304 20:36:38	-18.10	11673	304 19:22:43	-120.96	8042	304 19:46:27	-160.96	1799
304 22:21:59	-8.36	11674	304 21:07:36	-94.61	8043	304 21:31:23	-134.60	1800
			304 22:52:28	-68.26	8044	304 23:16:19	-108.24	1801

West longitude is negative (-)

Satellite 1			Satellite 2			Satellite 3		
TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg.dg		day hr mn sc	deg.dg		day hr mn sc	deg.dg	
305 00:07:20	-34.83	11675	305 00:37:21	41.92	8045	305 01:01:15	81.88	1802
305 01:52:42	-61.29	11676	305 02:22:14	15.57	8046	305 02:46:11	55.53	1803
305 03:38:03	-87.75	11677	305 04:07:07	-10.77	8047	305 04:31:07	29.17	1804
305 05:23:24	-114.22	11678	305 05:51:59	-37.12	8048	305 06:16:03	2.81	1805
305 07:08:45	-140.68	11679	305 07:36:52	-63.46	8049	305 08:00:58	-23.55	1806
305 08:54:07	-167.14	11680	305 09:21:45	-89.81	8050	305 09:45:54	-49.91	1807
305 10:39:28	166.39	11681	305 11:06:38	-116.15	8051	305 11:30:50	-76.27	1808
305 12:24:49	139.93	11682	305 12:51:31	-142.50	8052	305 13:15:46	-102.62	1809
305 14:10:10	113.46	11683	305 14:36:23	-168.85	8053	305 15:00:42	-128.98	1810
305 15:55:32	87.00	11684	305 16:21:16	164.81	8054	305 16:45:38	-155.34	1811
305 17:40:53	60.53	11685	305 18:06:09	138.46	8055	305 18:30:34	178.30	1812
305 19:26:14	34.07	11686	305 19:51:02	112.12	8056	305 20:15:29	151.94	1813
305 21:11:35	7.60	11687	305 21:35:55	85.78	8057	305 22:00:25	125.58	1814
305 22:56:57	-18.86	11688	305 23:20:47	59.43	8058	305 23:45:21	99.23	1815
306 00:42:18	-45.32	11689	306 01:05:40	33.08	8059	306 01:30:17	72.87	1816
306 02:27:39	-71.79	11690	306 02:50:33	6.74	8060	306 03:15:13	46.51	1817
306 04:13:00	-98.25	11691	306 04:35:26	-19.61	8061	306 05:00:09	20.15	1818
306 05:58:22	-124.72	11692	306 06:20:18	-45.96	8062	306 06:45:05	-6.21	1819
306 07:43:43	-151.18	11693	306 08:05:11	-72.30	8063	306 08:30:00	-32.57	1820
306 09:29:04	-177.65	11694	306 09:50:04	-98.64	8064	306 10:14:56	-58.92	1821
306 11:14:25	155.89	11695	306 11:34:57	-124.99	8065	306 11:59:52	-85.28	1822
306 12:59:47	129.43	11696	306 13:19:50	-151.33	8066	306 13:44:48	-111.64	1823
306 14:45:08	102.96	11697	306 15:04:42	-177.68	8067	306 15:29:44	-138.00	1824
306 16:30:29	76.50	11698	306 16:49:35	155.97	8068	306 17:14:40	-164.36	1825
306 18:15:50	50.03	11699	306 18:34:28	129.63	8069	306 18:59:36	169.29	1826
306 20:01:12	23.57	11700	306 20:19:21	103.28	8070	306 20:44:31	142.93	1827
306 21:46:33	-2.89	11701	306 22:04:13	76.94	8071	306 22:29:27	116.57	1828
306 23:31:54	-29.36	11702	306 23:49:06	50.59	8072			
307 01:17:15	-55.82	11703	307 01:33:59	24.25	8073	307 00:14:23	90.21	1829
307 03:02:37	-82.29	11704	307 03:18:52	-2.10	8074	307 01:59:19	63.85	1830
307 04:47:58	-108.75	11705	307 05:03:45	-28.44	8075	307 03:44:15	37.49	1831
307 06:33:19	-135.22	11706	307 06:48:37	-54.79	8076	307 05:29:11	11.14	1832
307 08:18:40	-161.68	11707	307 08:33:30	-81.14	8077	307 07:14:07	-15.22	1833
307 10:04:02	171.86	11708	307 10:18:23	-107.48	8078	307 08:59:02	-41.58	1834
307 11:49:23	145.39	11709	307 12:03:16	-133.83	8079	307 10:43:58	-67.94	1835
307 13:34:44	118.93	11710	307 13:48:08	-160.17	8080	307 12:28:54	-94.30	1836
307 15:20:05	92.46	11711	307 15:33:01	173.48	8081	307 14:13:50	-120.66	1837
307 17:05:27	66.00	11712	307 17:17:54	147.14	8082	307 15:58:46	-147.01	1838
307 18:50:48	39.53	11713	307 19:02:47	120.79	8083	307 17:43:42	-173.37	1839
307 20:36:09	13.07	11714	307 20:47:40	94.45	8084	307 19:28:38	160.27	1840
307 22:21:30	-13.40	11715	307 22:32:32	68.10	8085	307 21:13:34	133.91	1841
						307 22:58:29	107.55	1842
308 00:06:52	-39.86	11716	308 00:17:25	41.75	8086	308 00:43:25	81.19	1843
308 01:52:13	-66.32	11717	308 02:02:18	15.41	8087	308 02:28:21	54.84	1844
308 03:37:34	-92.79	11718	308 03:47:11	-10.94	8088	308 04:13:17	28.48	1845
308 05:22:55	-119.25	11719	308 05:32:03	-37.28	8089	308 05:58:13	2.12	1846
308 07:08:17	-145.71	11720	308 07:16:56	-63.63	8090	308 07:43:09	-24.24	1847
308 08:53:38	-172.18	11721	308 09:01:49	-89.97	8091	308 09:28:05	-50.59	1848
308 10:38:59	161.36	11722	308 10:46:42	-116.32	8092	308 11:13:00	-76.96	1849
308 12:24:20	134.89	11723	308 12:31:35	-142.66	8093	308 12:57:56	-103.31	1850
308 14:09:42	108.43	11724	308 14:16:27	-169.01	8094	308 14:42:52	-129.67	1851
308 15:55:03	81.96	11725	308 16:01:20	164.64	8095	308 16:27:48	-156.03	1852
308 17:40:24	55.50	11726	308 17:46:13	138.30	8096	308 18:12:44	177.61	1853
308 19:25:45	29.03	11727	308 19:31:06	111.95	8097	308 19:57:40	151.26	1854
308 21:11:07	2.57	11728	308 21:15:59	85.61	8098	308 21:42:36	124.90	1855
308 22:56:28	-23.89	11729	308 23:00:51	59.26	8099	308 23:27:31	98.54	1856

West longitude is negative (-)

Satellite 1			Satellite 2			Satellite 3		
TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg.dg		day hr mn sc	deg.dg		day hr mn sc	deg.dg	
309 00:41:49	-50.36	11730	309 00:45:44	32.92	8100	309 01:12:27	72.18	1857
309 02:27:10	-76.82	11731	309 02:30:37	6.57	8101	309 02:57:23	45.82	1858
309 04:12:32	-103.29	11732	309 04:15:30	-19.77	8102	309 04:42:19	19.46	1859
309 05:57:53	-129.75	11733	309 06:00:22	-46.12	8103	309 06:27:15	-6.89	1860
309 07:43:14	-156.21	11734	309 07:45:15	-72.47	8104	309 08:12:11	-33.25	1861
309 09:28:35	177.32	11735	309 09:30:08	-98.81	8105	309 09:57:07	-59.61	1862
309 11:13:57	150.86	11736	309 11:15:01	-125.16	8106	309 11:42:02	-85.97	1863
309 12:59:18	124.39	11737	309 12:59:54	-151.50	8107	309 13:26:58	-112.33	1864
309 14:44:39	97.93	11738	309 14:44:46	-177.85	8108	309 15:11:54	-138.69	1865
309 16:30:00	71.46	11739	309 16:29:39	155.81	8109	309 16:56:50	-165.04	1866
309 18:15:22	45.00	11740	309 18:14:32	129.46	8110	309 18:41:46	168.60	1867
309 20:00:43	18.54	11741	309 19:59:25	103.12	8111	309 20:26:42	142.24	1868
309 21:46:04	-7.93	11742	309 21:44:17	76.77	8112	309 22:11:38	115.88	1869
309 23:31:25	-34.39	11743	309 23:29:10	50.42	8113	309 23:56:33	89.52	1870
310 01:16:46	-60.86	11744	310 01:14:03	24.08	8114	310 01:41:29	63.16	1871
310 03:02:08	-87.32	11745	310 02:58:56	-2.27	8115	310 03:26:25	36.80	1872
310 04:47:29	-113.79	11746	310 04:43:48	-28.61	8116	310 05:11:21	10.45	1873
310 06:32:50	-140.25	11747	310 06:28:41	-54.96	8117	310 06:56:17	-15.91	1874
310 08:18:11	-166.72	11748	310 08:13:34	-81.30	8118	310 08:41:13	-42.27	1875
310 10:03:33	166.82	11749	310 09:58:27	-107.65	8119	310 10:26:09	-68.63	1876
310 11:48:54	140.36	11750	310 11:43:20	-133.99	8120	310 12:11:05	-94.98	1877
310 13:34:15	113.89	11751	310 13:28:12	-160.34	8121	310 13:56:00	-121.35	1878
310 15:19:36	87.43	11752	310 15:13:05	173.31	8122	310 15:40:56	-147.70	1879
310 17:04:58	60.97	11753	310 16:57:58	146.97	8123	310 17:25:52	-174.06	1880
310 18:50:19	34.50	11754	310 18:42:51	120.62	8124	310 19:10:48	159.58	1881
310 20:35:40	8.04	11755	310 20:27:43	94.28	8125	310 20:55:44	133.22	1882
310 22:21:01	-18.43	11756	310 22:12:36	67.93	8126	310 22:40:40	106.87	1883
			310 23:57:29	41.59	8127			
311 00:06:23	-44.89	11757	311 01:42:22	15.24	8128	311 00:25:36	80.51	1884
311 01:51:44	-71.36	11758	311 03:27:15	-11.10	8129	311 02:10:31	54.15	1885
311 03:37:05	-97.82	11759	311 05:12:07	-37.45	8130	311 03:55:27	27.79	1886
311 05:22:26	-124.29	11760	311 06:57:00	-63.79	8131	311 05:40:23	1.43	1887
311 07:07:48	-150.75	11761	311 08:41:53	-90.14	8132	311 07:25:19	-24.93	1888
311 08:53:09	-177.21	11762	311 10:26:46	-116.48	8133	311 09:10:15	-51.28	1889
311 10:38:30	156.32	11763	311 12:11:38	-142.83	8134	311 10:55:11	-77.64	1890
311 12:23:51	129.86	11764	311 13:56:31	-169.18	8135	311 12:40:07	-104.00	1891
311 14:09:13	103.39	11765	311 15:41:24	164.48	8136	311 14:25:02	-130.36	1892
311 15:54:34	76.93	11766	311 17:26:17	138.13	8137	311 16:09:58	-156.72	1893
311 17:39:55	50.46	11767	311 19:11:10	111.79	8138	311 17:54:54	176.92	1894
311 19:25:16	24.00	11768	311 20:56:02	85.44	8139	311 19:39:50	150.57	1895
311 21:10:38	-2.46	11769	311 22:40:55	59.10	8140	311 21:24:46	124.21	1896
311 22:55:59	-28.93	11770				311 23:09:42	97.85	1897
312 00:41:20	-55.39	11771	312 00:25:48	32.75	8141	312 00:54:38	71.49	1898
312 02:26:41	-81.86	11772	312 02:10:41	6.41	8142	312 02:39:34	45.13	1899
312 04:12:03	-108.32	11773	312 03:55:33	-19.94	8143	312 04:24:29	18.77	1900
312 05:57:24	-134.78	11774	312 05:40:26	-46.29	8144	312 06:09:25	-7.58	1901
312 07:42:45	-161.25	11775	312 07:25:19	-72.63	8145	312 07:54:21	-33.94	1902
312 09:28:06	172.29	11776	312 09:10:12	-98.98	8146	312 09:39:17	-60.30	1903
312 11:13:28	145.82	11777	312 10:55:05	-125.32	8147	312 11:24:13	-86.66	1904
312 12:58:49	119.36	11778	312 12:39:57	-151.67	8148	312 13:09:09	-113.02	1905
312 14:44:10	92.89	11779	312 14:24:50	-178.01	8149	312 14:54:05	-139.37	1906
312 16:29:31	66.43	11780	312 16:09:43	155.64	8150	312 16:39:00	-165.73	1907
312 18:14:53	39.97	11781	312 17:54:36	129.30	8151	312 18:23:56	167.91	1908
312 20:00:14	13.50	11782	312 19:39:28	102.95	8152	312 20:08:52	141.55	1909
312 21:45:35	-12.96	11783	312 21:24:21	76.60	8153	312 21:53:48	115.19	1910
312 23:30:56	-39.43	11784	312 23:09:14	50.26	8154	312 23:38:44	88.83	1911

West longitude is negative (—)

Satellite 1			Satellite 2			Satellite 3		
TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg.dg		day hr mn sc	deg.dg		day hr mn sc	deg.dg	
313 01:16:18	-65.89	11785	313 00:54:07	23.91	8155	313 01:23:40	62.48	1912
313 03:01:39	-92.35	11786	313 02:38:59	-2.43	8156	313 03:08:36	36.12	1913
313 04:47:00	-118.82	11787	313 04:23:52	-28.78	8157	313 04:53:32	9.76	1914
313 06:32:21	-145.28	11788	313 06:08:45	-55.12	8158	313 06:38:27	-16.60	1915
313 08:17:42	-171.75	11789	313 07:53:38	-81.47	8159	313 08:23:23	-42.96	1916
313 10:03:04	161.79	11790	313 09:38:31	-107.81	8160	313 10:08:19	-69.32	1917
313 11:48:25	135.32	11791	313 11:23:23	-134.16	8161	313 11:53:15	-95.67	1918
313 13:33:46	108.86	11792	313 13:08:16	-160.51	8162	313 13:38:11	-122.03	1919
313 15:19:07	82.39	11793	313 14:53:09	173.15	8163	313 15:23:07	-148.39	1920
313 17:04:29	55.93	11794	313 16:38:02	146.81	8164	313 17:08:03	-174.75	1921
313 18:49:50	29.47	11795	313 18:22:54	120.46	8165	313 18:52:58	158.89	1922
313 20:35:11	3.00	11796	313 20:07:47	94.11	8166	313 20:37:54	132.53	1923
313 22:20:32	-23.46	11797	313 21:52:40	67.77	8167	313 22:22:50	106.18	1924
			313 23:37:33	41.42	8168			
314 00:05:54	-49.93	11798	314 01:22:26	15.88	8169	314 00:07:46	79.82	1925
314 01:51:15	-76.39	11799	314 03:07:18	-11.27	8170	314 01:52:42	53.46	1926
314 03:36:36	-102.86	11800	314 04:52:11	-37.61	8171	314 03:37:38	27.10	1927
314 05:21:57	-129.32	11801	314 06:37:04	-63.96	8172	314 05:22:34	7.74	1928
314 07:07:19	-155.78	11802	314 08:21:57	-90.30	8173	314 07:07:30	-25.61	1929
314 08:52:40	177.75	11803	314 10:06:49	-116.65	8174	314 08:52:25	-51.98	1930
314 10:38:01	151.29	11804	314 11:51:42	-143.00	8175	314 10:37:21	-78.33	1931
314 12:23:22	124.82	11805	314 13:36:35	-169.34	8176	314 12:22:17	-104.69	1932
314 14:08:44	98.36	11806	314 15:21:28	164.31	8177	314 14:07:13	-131.05	1933
314 15:54:05	71.90	11807	314 17:06:20	137.97	8178	314 15:52:09	-157.41	1934
314 17:39:26	45.43	11808	314 18:51:13	111.62	8179	314 17:37:05	176.24	1935
314 19:24:47	18.97	11809	314 20:36:06	85.28	8180	314 19:22:01	149.88	1936
314 21:10:09	-7.50	11810	314 22:20:59	58.93	8181	314 21:06:56	123.52	1937
314 22:55:30	-33.96	11811				314 22:51:52	97.16	1938
315 00:40:51	-60.43	11812	315 00:05:52	32.59	8182	315 00:36:48	70.80	1939
315 02:26:12	-86.89	11813	315 01:50:44	6.24	8183	315 02:21:44	44.44	1940
315 04:11:34	-113.35	11814	315 03:35:37	-20.11	8184	315 04:06:40	18.09	1941
315 05:56:55	-139.82	11815	315 05:20:30	-46.45	8185	315 05:51:36	-8.27	1942
315 07:42:16	-166.28	11816	315 07:05:23	-72.80	8186	315 07:36:32	-34.63	1943
315 09:27:37	167.25	11817	315 08:50:15	-99.14	8187	315 09:21:28	-60.99	1944
315 11:12:59	140.79	11818	315 10:35:08	-125.49	8188	315 11:06:23	-87.35	1945
315 12:58:20	114.33	11819	315 12:20:01	-151.83	8189	315 12:51:19	-113.71	1946
315 14:43:41	87.86	11820	315 14:04:54	-178.18	8190	315 14:36:15	-140.07	1947
315 16:29:02	61.40	11821	315 15:49:46	155.47	8191	315 16:21:11	-166.42	1948
315 18:14:24	34.93	11822	315 17:34:39	129.13	8192	315 18:06:07	167.22	1949
315 19:59:45	8.47	11823	315 19:19:32	102.78	8193	315 19:51:03	140.86	1950
315 21:45:06	-18.00	11824	315 21:04:25	76.44	8194	315 21:35:59	114.50	1951
315 23:30:27	-44.46	11825	315 22:49:18	50.10	8195	315 23:20:54	88.14	1952
316 01:15:48	-70.93	11826	316 00:34:10	23.75	8196	316 01:05:50	61.78	1953
316 03:01:10	-97.39	11827	316 02:19:03	-2.60	8197	316 02:50:46	35.43	1954
316 04:46:31	-123.85	11828	316 04:03:56	-28.94	8198	316 04:35:42	9.07	1955
316 06:31:52	-150.32	11829	316 05:48:49	-55.29	8199	316 06:20:38	-17.29	1956
316 08:17:13	-176.78	11830	316 07:33:41	-81.63	8200	316 08:05:34	-43.65	1957
316 10:02:35	156.75	11831	316 09:18:34	-107.98	8201	316 09:50:30	-70.00	1958
316 11:47:56	130.29	11832	316 11:03:27	-134.32	8202	316 11:35:26	-96.36	1959
316 13:33:17	103.83	11833	316 12:48:20	-160.67	8203	316 13:20:21	-122.72	1960
316 15:18:38	77.36	11834	316 14:33:12	172.98	8204	316 15:05:17	-149.08	1961
316 17:04:00	50.90	11835	316 16:18:05	146.64	8205	316 16:50:13	-175.44	1962
316 18:49:21	24.43	11836	316 18:02:58	120.29	8206	316 18:35:09	158.20	1963
316 20:34:42	-2.03	11837	316 19:47:51	93.95	8207	316 20:20:05	131.84	1964
316 22:20:03	-28.50	11838	316 21:32:44	67.60	8208	316 22:05:01	105.49	1965
			316 23:17:36	41.26	8209	316 23:49:57	79.13	1966

West longitude is negative (—)

Satellite 1			Satellite 2			Satellite 3		
TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg.dg		day hr mn sc	deg.dg		day hr mn sc	deg.dg	
317 00:05:25	-54.96	11839	317 01:02:29	14.91	8210	317 01:34:53	52.77	1967
317 01:50:46	-81.42	11840	317 02:47:22	-11.43	8211	317 03:19:48	26.41	1968
317 03:36:07	-107.89	11841	317 04:32:15	-37.78	8212	317 05:04:44	.05	1969
317 05:21:28	-134.35	11842	317 06:17:07	-64.13	8213	317 06:49:40	-26.31	1970
317 07:06:50	-160.82	11843	317 08:02:00	-90.47	8214	317 08:34:36	-52.66	1971
317 08:52:11	172.72	11844	317 09:46:53	-116.82	8215	317 10:19:32	-79.02	1972
317 10:37:32	146.25	11845	317 11:31:46	-143.16	8216	317 12:04:28	-105.38	1973
317 12:22:53	119.79	11846	317 13:16:38	-169.51	8217	317 13:49:24	-131.74	1974
317 14:08:15	93.33	11847	317 15:01:31	164.15	8218	317 15:34:19	-158.10	1975
317 15:53:36	66.86	11848	317 16:46:24	137.80	8219	317 17:19:15	175.54	1976
317 17:38:57	40.40	11849	317 18:31:17	111.46	8220	317 19:04:11	149.19	1977
317 19:24:18	13.93	11850	317 20:16:10	85.11	8221	317 20:49:07	122.83	1978
317 21:09:40	-12.53	11851	317 22:01:02	58.77	8222	317 22:34:03	96.47	1979
317 22:55:01	-38.99	11852	317 23:45:55	32.42	8223			
318 00:40:22	-65.46	11853	318 01:30:48	6.08	8224	318 00:18:59	70.11	1980
318 02:25:43	-91.92	11854	318 03:15:41	-20.27	8225	318 02:03:55	43.75	1981
318 04:11:04	-118.39	11855	318 05:00:33	-46.62	8226	318 03:48:51	17.40	1982
318 05:56:26	-144.85	11856	318 06:45:26	-72.96	8227	318 05:33:46	-8.96	1983
318 07:41:47	-171.32	11857	318 08:30:19	-99.31	8228	318 07:18:42	-35.32	1984
318 09:27:08	162.22	11858	318 10:15:12	-125.65	8229	318 09:03:38	-61.68	1985
318 11:12:29	135.75	11859	318 12:00:04	-152.00	8230	318 10:48:34	-88.04	1986
318 12:57:51	109.29	11860	318 13:44:57	-178.34	8231	318 12:33:30	-114.40	1987
318 14:43:12	82.83	11861	318 15:29:50	155.31	8232	318 14:18:26	-140.75	1988
318 16:28:33	56.36	11862	318 17:14:43	128.97	8233	318 16:03:22	-167.11	1989
318 18:13:54	29.90	11863	318 18:59:35	102.62	8234	318 17:48:18	166.53	1990
318 19:59:16	3.44	11864	318 20:44:28	76.27	8235	318 19:33:13	140.17	1991
318 21:44:37	-23.03	11865	318 22:29:21	49.93	8236	318 21:18:09	113.81	1992
318 23:29:58	-49.49	11866				318 23:03:05	87.45	1993
319 01:15:19	-75.96	11867	319 00:14:14	23.58	8237	319 00:48:01	61.10	1994
319 03:00:41	-102.42	11868	319 01:59:07	-2.76	8238	319 02:32:57	34.74	1995
319 04:46:02	-128.89	11869	319 03:43:59	-29.11	8239	319 04:17:53	8.38	1996
319 06:31:23	-155.35	11870	319 05:28:52	-55.45	8240	319 06:02:49	-17.98	1997
319 08:16:44	178.18	11871	319 07:13:45	-81.80	8241	319 07:47:44	-44.34	1998
319 10:02:06	151.72	11872	319 08:58:38	-108.14	8242	319 09:32:40	-70.70	1999
319 11:47:27	125.26	11873	319 10:43:30	-134.49	8243	319 11:17:36	-97.05	2000
319 13:32:48	98.79	11874	319 12:28:23	-160.83	8244	319 13:02:32	-123.41	2001
319 15:18:09	72.33	11875	319 14:13:16	172.82	8245	319 14:47:28	-149.77	2002
319 17:03:31	45.86	11876	319 15:58:09	146.48	8246	319 16:32:24	-176.13	2003
319 18:48:52	19.40	11877	319 17:43:01	120.13	8247	319 18:17:20	157.51	2004
319 20:34:13	-7.06	11878	319 19:27:54	93.78	8248	319 20:02:16	131.16	2005
319 22:19:34	-33.53	11879	319 21:12:47	67.44	8249	319 21:47:11	104.79	2006
			319 22:57:40	41.09	8250	319 23:32:07	78.44	2007
320 00:04:56	-59.99	11880	320 00:42:33	14.75	8251	320 01:17:03	52.08	2008
320 01:50:17	-86.46	11881	320 02:27:25	-11.60	8252	320 03:01:59	25.72	2009
320 03:35:38	-112.92	11882	320 04:12:18	-37.94	8253	320 04:46:55	-64	2010
320 05:20:59	-139.39	11883	320 05:57:11	-64.29	8254	320 06:31:51	-27.00	2011
320 07:06:20	-165.85	11884	320 07:42:04	-90.63	8255	320 08:16:47	-53.35	2012
320 08:51:42	167.69	11885	320 09:26:56	-116.98	8256	320 10:01:43	-79.71	2013
320 10:37:03	141.22	11886	320 11:11:49	-143.33	8257	320 11:46:38	-106.07	2014
320 12:22:24	114.76	11887	320 12:56:42	-169.67	8258	320 13:31:34	-132.43	2015
320 14:07:45	88.29	11888	320 14:41:35	163.99	8259	320 15:16:30	-158.79	2016
320 15:53:07	61.83	11889	320 16:26:27	137.64	8260	320 17:01:26	174.85	2017
320 17:38:28	35.36	11890	320 18:11:20	111.29	8261	320 18:46:22	148.50	2018
320 19:23:49	8.90	11891	320 19:56:13	84.95	8262	320 20:31:18	122.14	2019
320 21:09:10	-17.57	11892	320 21:41:06	58.60	8263	320 22:16:14	95.78	2020
320 22:54:32	-44.03	11893	320 23:25:58	32.26	8264			

West longitude is negative (—)

Satellite 1

TIME (GMT) E. LONG. ORBIT
day hr mn sc deg.dg

321 00:39:53 -70.49 11894
321 02:25:14 -96.96 11895
321 04:10:35 -123.42 11896
321 05:55:57 -149.88 11897
321 07:41:18 -176.35 11898
321 09:26:39 157.19 11899
321 11:12:00 130.72 11900
321 12:57:22 104.26 11901
321 14:42:43 77.79 11902
321 16:28:04 51.33 11903
321 18:13:25 24.86 11904
321 19:58:47 -1.60 11905
321 21:44:08 -28.06 11906
321 23:29:29 -54.53 11907

322 01:14:50 -80.99 11908
322 03:00:11 -107.46 11909
322 04:45:33 -133.92 11910
322 06:30:54 -160.38 11911
322 08:16:15 173.15 11912
322 10:01:36 146.69 11913
322 11:46:58 120.22 11914
322 13:32:19 93.76 11915
322 15:17:40 67.29 11916
322 17:03:01 40.83 11917
322 18:48:23 14.37 11918
322 20:33:44 -12.10 11919
322 22:19:05 -38.56 11920

323 00:04:26 -65.03 11921
323 01:49:48 -91.49 11922
323 03:35:09 -117.95 11923
323 05:20:30 -144.42 11924
323 07:05:51 -170.88 11925
323 08:51:13 162.65 11926
323 10:36:34 136.19 11927
323 12:21:55 109.72 11928
323 14:07:16 83.26 11929
323 15:52:38 56.80 11930
323 17:37:59 30.33 11931
323 19:23:20 3.87 11932
323 21:08:41 -22.60 11933
323 22:54:02 -49.06 11934

324 00:39:24 -75.52 11935
324 02:24:45 -101.99 11936
324 04:10:06 -128.45 11937
324 05:55:27 -154.92 11938
324 07:40:49 178.62 11939
324 09:26:10 152.15 11940
324 11:11:31 125.69 11941
324 12:56:52 99.22 11942
324 14:42:14 72.76 11943
324 16:27:35 46.30 11944
324 18:12:56 19.83 11945
324 19:58:17 -6.63 11946
324 21:43:39 -33.10 11947
324 23:29:00 -59.56 11948

Satellite 2

TIME (GMT) E. LONG. ORBIT
day hr mn sc deg.dg

321 01:10:51 5.91 8265
321 02:55:44 -20.43 8266
321 04:40:37 -46.78 8267
321 06:25:29 -73.13 8268
321 08:10:22 -99.47 8269
321 09:55:15 -125.82 8270
321 11:40:08 -152.16 8271
321 13:25:01 -178.51 8272
321 15:09:53 155.15 8273
321 16:54:46 128.80 8274
321 18:39:39 102.46 8275
321 20:24:32 76.11 8276
321 22:09:24 49.76 8277
321 23:54:17 23.42 8278

322 01:39:10 -2.92 8279
322 03:24:03 -29.27 8280
322 05:08:55 -55.62 8281
322 06:53:48 -81.96 8282
322 08:38:41 -108.31 8283
322 10:23:34 -134.65 8284
322 12:08:26 -161.00 8285
322 13:53:19 172.66 8286
322 15:38:12 146.31 8287
322 17:23:05 119.97 8288
322 19:07:58 93.62 8289
322 20:52:50 67.27 8290
322 22:37:43 40.93 8291

323 00:22:36 14.58 8292
323 02:07:29 -11.76 8293
323 03:52:21 -38.11 8294
323 05:37:14 -64.45 8295
323 07:22:07 -90.80 8296
323 09:07:00 -117.14 8297
323 10:51:52 -143.49 8298
323 12:36:45 -169.83 8299
323 14:21:38 163.82 8300
323 16:06:31 137.48 8301
323 17:51:23 111.13 8302
323 19:36:16 84.78 8303
323 21:21:09 58.44 8304
323 23:06:02 32.09 8305

324 00:50:54 5.75 8306
324 02:35:47 -20.60 8307
324 04:20:40 -46.94 8308
324 06:05:33 -73.29 8309
324 07:50:25 -99.64 8310
324 09:35:18 -125.98 8311
324 11:20:11 -152.32 8312
324 13:05:04 -178.67 8313
324 14:49:57 154.99 8314
324 16:34:49 128.64 8315
324 18:19:42 102.29 8316
324 20:04:35 75.95 8317
324 21:49:28 49.60 8318
324 23:34:20 23.26 8319

Satellite 3

TIME (GMT) E. LONG. ORBIT
day hr mn sc deg.dg

321 00:01:10 69.42 2021
321 01:46:05 43.06 2022
321 03:31:01 16.70 2023
321 05:15:57 -9.65 2024
321 07:00:53 -36.01 2025
321 08:45:49 -62.37 2026
321 10:30:45 -88.73 2027
321 12:15:41 -115.09 2028
321 14:00:37 -141.44 2029
321 15:45:32 -167.80 2030
321 17:30:28 165.84 2031
321 19:15:24 139.48 2032
321 21:00:20 113.12 2033
321 22:45:16 86.76 2034

322 00:30:12 60.41 2035
322 02:15:08 34.05 2036
322 04:00:04 7.69 2037
322 05:44:59 -18.67 2038
322 07:29:55 -45.03 2039
322 09:14:51 -71.39 2040
322 10:59:47 -97.74 2041
322 12:44:43 -124.10 2042
322 14:29:39 -150.46 2043
322 16:14:35 -176.82 2044
322 17:59:31 156.82 2045
322 19:44:26 130.46 2046
322 21:29:22 104.10 2047
322 23:14:18 77.75 2048

323 00:59:14 51.39 2049
323 02:44:10 25.03 2050
323 04:29:06 -1.33 2051
323 06:14:02 -27.69 2052
323 07:58:58 -54.04 2053
323 09:43:53 -80.40 2054
323 11:28:49 -106.76 2055
323 13:13:45 -133.12 2056
323 14:58:41 -159.48 2057
323 16:43:37 174.16 2058
323 18:28:33 147.81 2059
323 20:13:29 121.45 2060
323 21:58:25 95.09 2061
323 23:43:20 68.73 2062

324 01:28:16 42.37 2063
324 03:13:12 16.01 2064
324 04:58:08 -10.34 2065
324 06:43:04 -36.70 2066
324 08:28:00 -63.06 2067
324 10:12:56 -89.42 2068
324 11:57:52 -115.78 2069
324 13:42:47 -142.14 2070
324 15:27:43 -168.49 2071
324 17:12:39 165.15 2072
324 18:57:35 138.79 2073
324 20:42:31 112.43 2074
324 22:27:27 86.07 2075

West longitude is negative (—)

Satellite 1			Satellite 2			Satellite 3		
TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg dg		day hr mn sc	deg dg		day hr mn sc	deg dg	
325 01:14:21	-86.02	11949	325 01:19:13	-3.09	8320	325 00:12:23	59.72	2076
325 02:59:42	-112.49	11950	325 03:04:06	-29.43	8321	325 01:57:19	33.36	2077
325 04:45:04	-138.95	11951	325 04:48:59	-55.78	8322	325 03:42:14	7.00	2078
325 06:30:25	-165.42	11952	325 06:33:51	-82.13	8323	325 05:27:10	-19.36	2079
325 08:15:46	168.12	11953	325 08:18:44	-108.47	8324	325 07:12:06	-45.72	2080
325 10:01:07	141.65	11954	325 10:03:37	-134.82	8325	325 08:57:02	-72.08	2081
325 11:46:29	115.19	11955	325 11:48:30	-161.16	8326	325 10:41:58	-98.44	2082
325 13:31:50	88.73	11956	325 13:33:22	172.49	8327	325 12:26:54	-124.79	2083
325 15:17:11	62.26	11957	325 15:18:15	146.15	8328	325 14:11:50	-151.15	2084
325 17:02:32	35.80	11958	325 17:03:08	119.80	8329	325 15:56:46	-177.51	2085
325 18:47:53	9.33	11959	325 18:48:01	93.46	8330	325 17:41:41	156.13	2086
325 20:33:15	-17.13	11960	325 20:32:53	67.11	8331	325 19:26:37	129.77	2087
325 22:18:36	-43.60	11961	325 22:17:46	40.77	8332	325 21:11:33	103.41	2088
						325 22:56:29	77.06	2089
326 00:03:57	-70.06	11962	326 00:02:39	14.42	8333	326 00:41:25	50.70	2090
326 01:49:18	-96.52	11963	326 01:47:32	-11.92	8334	326 02:26:21	24.34	2091
326 03:34:40	-122.99	11964	326 03:32:24	-38.27	8335	326 04:11:17	-2.02	2092
326 05:20:01	-149.45	11965	326 05:17:17	-64.62	8336	326 05:56:13	-28.38	2093
326 07:05:22	-175.92	11966	326 07:02:10	-90.96	8337	326 07:41:08	-54.74	2094
326 08:50:43	157.62	11967	326 08:47:03	-117.31	8338	326 09:26:04	-81.09	2095
326 10:36:05	131.16	11968	326 10:31:56	-143.65	8339	326 11:11:00	-107.45	2096
326 12:21:26	104.69	11969	326 12:16:48	-170.00	8340	326 12:55:56	-133.81	2097
326 14:06:47	78.23	11970	326 14:01:41	163.66	8341	326 14:40:52	-160.17	2098
326 15:52:08	51.76	11971	326 15:46:34	137.31	8342	326 16:25:48	173.47	2099
326 17:37:30	25.30	11972	326 17:31:27	110.97	8343	326 18:10:44	147.12	2100
326 19:22:51	-1.17	11973	326 19:16:19	84.62	8344	326 19:55:40	120.76	2101
326 21:08:12	-27.63	11974	326 21:01:12	58.28	8345	326 21:40:35	94.40	2102
326 22:53:33	-54.10	11975	326 22:46:05	31.93	8346	326 23:25:31	68.04	2103
327 00:38:55	-80.56	11976	327 00:30:58	5.59	8347	327 01:10:27	41.68	2104
327 02:24:16	-107.02	11977	327 02:15:50	-20.76	8348	327 02:55:23	15.32	2105
327 04:09:37	-133.49	11978	327 04:00:43	-47.11	8349	327 04:40:19	-11.03	2106
327 05:54:58	-159.95	11979	327 05:45:36	-73.45	8350	327 06:25:15	-37.39	2107
327 07:40:20	173.59	11980	327 07:30:29	-99.80	8351	327 08:10:11	-63.75	2108
327 09:25:41	147.12	11981	327 09:15:21	-126.14	8352	327 09:55:07	-90.11	2109
327 11:11:02	120.66	11982	327 11:00:14	-152.49	8353	327 11:40:02	-116.47	2110
327 12:56:23	94.19	11983	327 12:45:07	-178.83	8354	327 13:24:58	-142.83	2111
327 14:41:44	67.73	11984	327 14:30:00	154.82	8355	327 15:09:54	-169.19	2112
327 16:27:06	41.26	11985	327 16:14:52	128.47	8356	327 16:54:50	164.46	2113
327 18:12:27	14.80	11986	327 17:59:45	102.13	8357	327 18:39:46	138.10	2114
327 19:57:48	-11.67	11987	327 19:44:38	75.79	8358	327 20:24:42	111.74	2115
327 21:43:09	-38.13	11988	327 21:29:31	49.44	8359	327 22:09:38	85.38	2116
327 23:28:31	-64.59	11989	327 23:14:23	23.09	8360	327 23:54:34	59.02	2117
328 01:13:52	-91.06	11990	328 00:59:16	-3.25	8361	328 01:39:30	32.67	2118
328 02:59:13	-117.52	11991	328 02:44:09	-29.60	8362	328 03:24:25	6.31	2119
328 04:44:34	-143.99	11992	328 04:29:02	-55.94	8363	328 05:09:21	-20.05	2120
328 06:29:56	-170.45	11993	328 06:13:54	-82.29	8364	328 06:54:17	-46.41	2121
328 08:15:17	163.09	11994	328 07:58:47	-108.63	8365	328 08:39:13	-72.77	2122
328 10:00:38	136.62	11995	328 09:43:40	-134.98	8366	328 10:24:09	-99.13	2123
328 11:45:59	110.16	11996	328 11:28:33	-161.32	8367	328 12:09:05	-125.48	2124
328 13:31:21	83.69	11997	328 13:13:25	172.33	8368	328 13:54:01	-151.84	2125
328 15:16:42	57.23	11998	328 14:58:18	145.98	8369	328 15:38:57	-178.20	2126
328 17:02:03	30.76	11999	328 16:43:11	119.64	8370	328 17:23:52	155.44	2127
328 18:47:24	4.30	12000	328 18:28:04	93.30	8371	328 19:08:48	129.08	2128
328 20:32:46	-22.16	12001	328 20:12:57	66.95	8372	328 20:53:44	102.72	2129
328 22:18:07	-48.63	12002	328 21:57:49	40.60	8373	328 22:38:40	76.37	2130
			328 23:42:42	14.26	8374			

West longitude is negative (—)

Satellite 1			Satellite 2			Satellite 3		
TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg.dg		day hr mn sc	deg.dg		day hr mn sc	deg.dg	
329 00:03:28	-75.09	12003	329 01:27:35	-12.09	8375	329 00:23:36	50.01	2131
329 01:48:49	-101.56	12004	329 03:12:28	-38.43	8376	329 02:08:32	23.65	2132
329 03:34:11	-128.02	12005	329 04:57:20	-64.78	8377	329 03:53:28	-2.71	2133
329 05:19:32	-154.48	12006	329 06:42:13	-91.12	8378	329 05:38:24	-29.07	2134
329 07:04:53	179.05	12007	329 08:27:06	-117.47	8379	329 07:23:19	-55.43	2135
329 08:50:14	152.59	12008	329 10:11:59	-143.81	8380	329 09:08:15	-81.79	2136
329 10:35:35	126.12	12009	329 11:56:51	-170.16	8381	329 10:53:11	-108.14	2137
329 12:20:57	99.66	12010	329 13:41:44	163.49	8382	329 12:38:07	-134.50	2138
329 14:06:18	73.19	12011	329 15:26:37	137.15	8383	329 14:23:03	-160.86	2139
329 15:51:39	46.73	12012	329 17:11:30	110.81	8384	329 16:07:59	172.78	2140
329 17:37:00	20.26	12013	329 18:56:22	84.46	8385	329 17:52:55	146.42	2141
329 19:22:22	-6.20	12014	329 20:41:15	58.11	8386	329 19:37:51	120.07	2142
329 21:07:43	-32.66	12015	329 22:26:08	31.77	8387	329 21:22:46	93.71	2143
329 22:53:04	-59.13	12016				329 23:07:42	67.35	2144
			330 00:11:01	5.42	8388	330 00:52:38	40.99	2145
330 00:38:25	-85.59	12017	330 01:55:53	-20.92	8389	330 02:37:34	14.63	2146
330 02:23:47	-112.05	12018	330 03:40:46	-47.27	8390	330 04:22:30	-11.73	2147
330 04:09:08	-138.52	12019	330 05:25:39	-73.61	8391	330 06:07:26	-38.08	2148
330 05:54:29	-164.98	12020	330 07:10:32	-99.96	8392	330 07:52:22	-64.44	2149
330 07:39:50	168.55	12021	330 08:55:24	-126.31	8393	330 09:37:18	-90.80	2150
330 09:25:12	142.09	12022	330 10:40:17	-152.65	8394	330 11:22:14	-117.16	2151
330 11:10:33	115.62	12023	330 12:25:10	-179.00	8395	330 13:07:09	-143.52	2152
330 12:55:54	89.16	12024	330 14:10:03	154.66	8396	330 14:52:05	-169.88	2153
330 14:41:15	62.69	12025	330 15:54:55	128.31	8397	330 16:37:01	163.76	2154
330 16:26:37	36.23	12026	330 17:39:48	101.97	8398	330 18:21:57	137.41	2155
330 18:11:58	9.77	12027	330 19:24:41	75.62	8399	330 20:06:53	111.05	2156
330 19:57:19	-16.70	12028	330 21:09:34	49.28	8400	330 21:51:49	84.69	2157
330 21:42:40	-43.16	12029	330 22:54:26	22.93	8401	330 23:36:45	58.33	2158
330 23:28:02	-69.63	12030						
			331 00:39:19	-3.41	8402	331 01:21:41	31.97	2159
331 01:13:23	-96.09	12031	331 02:24:12	-29.76	8403	331 03:06:36	5.61	2160
331 02:58:44	-122.56	12032	331 04:09:05	-56.10	8404	331 04:51:32	-20.74	2161
331 04:44:05	-149.02	12033	331 05:53:57	-82.45	8405	331 06:36:28	-47.10	2162
331 06:29:26	-175.48	12034	331 07:38:50	-108.80	8406	331 08:21:24	-73.46	2163
331 08:14:48	158.05	12035	331 09:23:43	-135.14	8407	331 10:06:20	-99.82	2164
331 10:00:09	131.59	12036	331 11:08:36	-161.49	8408	331 11:51:16	-126.18	2165
331 11:45:30	105.12	12037	331 12:53:28	172.17	8409	331 13:36:12	-152.53	2166
331 13:30:51	78.66	12038	331 14:38:21	145.82	8410	331 15:21:08	-178.89	2167
331 15:16:13	52.20	12039	331 16:23:14	119.48	8411	331 17:06:03	154.75	2168
331 17:01:34	25.73	12040	331 18:08:07	93.13	8412	331 18:50:59	128.39	2169
331 18:46:55	-7.73	12041	331 19:52:59	66.79	8413	331 20:35:55	102.03	2170
331 20:32:16	-27.20	12042	331 21:37:52	40.44	8414	331 22:20:51	75.67	2171
331 22:17:38	-53.66	12043	331 23:22:45	14.10	8415			
			332 01:07:38	-12.25	8416	332 00:05:47	49.32	2172
332 00:02:59	-80.13	12044	332 02:52:31	-38.59	8417	332 01:50:43	22.96	2173
332 01:48:20	-106.59	12045	332 04:37:23	-64.94	8418	332 03:35:39	-3.40	2174
332 03:33:41	-133.06	12046	332 06:22:16	-91.29	8419	332 05:20:35	-29.76	2175
332 05:19:03	-159.52	12047	332 08:07:09	-117.63	8420	332 07:05:31	-56.12	2176
332 07:04:24	174.02	12048	332 09:52:02	-143.98	8421	332 08:50:26	-82.48	2177
332 08:49:45	147.55	12049	332 11:36:54	-170.32	8422	332 10:35:22	-108.84	2178
332 10:35:06	121.09	12050	332 13:21:47	163.33	8423	332 12:20:18	-135.19	2179
332 12:20:28	94.63	12051	332 15:06:40	136.99	8424	332 14:05:14	-161.55	2180
332 14:05:49	68.16	12052	332 16:51:33	110.64	8425	332 15:50:10	172.09	2181
332 15:51:10	41.70	12053	332 18:36:25	84.30	8426	332 17:35:06	145.73	2182
332 17:36:31	15.23	12054	332 20:21:18	57.95	8427	332 19:20:02	119.37	2183
332 19:21:53	-11.23	12055	332 22:06:11	31.61	8428	332 21:04:58	93.02	2184
332 21:07:14	-37.70	12056	332 23:51:04	5.26	8429	332 22:49:53	66.66	2185
332 22:52:35	-64.16	12057						

West longitude is negative (-)

Satellite 1			Satellite 2			Satellite 3		
TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg.dg		day hr mn sc	deg.dg		day hr mn sc	deg.dg	
333 00:37:56	-90.63	12058	333 01:35:56	-21.09	8430	333 00:34:49	40.30	2186
333 02:23:17	-117.09	12059	333 03:20:49	-47.43	8431	333 02:19:45	13.94	2187
333 04:08:39	-143.55	12060	333 05:05:42	-73.78	8432	333 04:04:41	-12.42	2188
333 05:54:00	-170.02	12061	333 06:50:35	-100.12	8433	333 05:49:37	-38.78	2189
333 07:39:21	163.52	12062	333 08:35:27	-126.47	8434	333 07:34:33	-65.13	2190
333 09:24:42	137.05	12063	333 10:20:20	-152.81	8435	333 09:19:29	-91.49	2191
333 11:10:04	110.59	12064	333 12:05:13	-179.16	8436	333 11:04:25	-117.85	2192
333 12:55:25	84.13	12065	333 13:50:06	154.50	8437	333 12:49:20	-144.21	2193
333 14:40:46	57.66	12066	333 15:34:58	128.15	8438	333 14:34:16	-170.57	2194
333 16:26:07	31.20	12067	333 17:19:51	101.81	8439	333 16:19:12	163.07	2195
333 18:11:29	4.73	12068	333 19:04:44	75.46	8440	333 18:04:08	136.71	2196
333 19:56:50	-21.73	12069	333 20:49:37	49.12	8441	333 19:49:04	110.36	2197
333 21:42:11	-48.20	12070	333 22:34:29	22.77	8442	333 21:34:00	84.00	2198
333 23:27:32	-74.66	12071				333 23:18:56	57.64	2199
			334 00:19:22	-3.58	8443	334 01:03:52	31.28	2200
334 01:12:54	-101.12	12072	334 02:04:15	-29.92	8444	334 02:48:48	4.92	2201
334 02:58:15	-127.59	12073	334 03:49:08	-56.27	8445	334 04:33:43	-21.44	2202
334 04:43:36	-154.05	12074	334 05:34:00	-82.61	8446	334 06:18:39	-47.79	2203
334 06:28:57	179.48	12075	334 07:18:53	-108.96	8447	334 08:03:35	-74.15	2204
334 08:14:19	153.02	12076	334 09:03:46	-135.30	8448	334 09:48:31	-100.51	2205
334 09:59:40	126.56	12077	334 10:48:39	-161.65	8449	334 11:33:27	-126.87	2206
334 11:45:01	100.09	12078	334 12:33:31	172.01	8450	334 13:18:23	-153.23	2207
334 13:30:22	73.63	12079	334 14:18:24	145.66	8451	334 15:03:19	-179.58	2208
334 15:15:44	47.16	12080	334 16:03:17	119.32	8452	334 16:48:15	154.06	2209
334 17:01:05	20.70	12081	334 17:48:10	92.97	8453	334 18:33:10	127.70	2210
334 18:46:26	-5.77	12082	334 19:33:02	66.62	8454	334 20:18:06	101.34	2211
334 20:31:47	-32.23	12083	334 21:17:55	40.28	8455	334 22:03:02	74.98	2212
334 22:17:09	-58.69	12084	334 23:02:48	13.93	8456	334 23:47:58	48.62	2213
			335 00:47:41	-12.41	8457	335 01:32:54	22.27	2214
335 00:02:30	-85.16	12085	335 02:32:33	-38.76	8458	335 03:17:50	-4.09	2215
335 01:47:51	-111.62	12086	335 04:17:26	-65.10	8459	335 05:02:46	-30.45	2216
335 03:33:12	-138.09	12087	335 06:02:19	-91.45	8460	335 06:47:42	-56.81	2217
335 05:18:33	-164.55	12088	335 07:47:12	-117.79	8461	335 08:32:38	-83.17	2218
335 07:03:55	168.98	12089	335 09:32:04	-144.14	8462	335 10:17:33	-109.53	2219
335 08:49:16	142.52	12090	335 11:16:57	-170.48	8463	335 12:02:29	-135.89	2220
335 10:34:37	116.05	12091	335 13:01:50	163.17	8464	335 13:47:25	-162.24	2221
335 12:19:58	89.59	12092	335 14:46:43	136.83	8465	335 15:32:21	171.40	2222
335 14:05:20	63.13	12093	335 16:31:35	110.48	8466	335 17:17:17	145.04	2223
335 15:50:41	36.66	12094	335 18:16:28	84.13	8467	335 19:02:13	118.68	2224
335 17:36:02	10.20	12095	335 20:01:21	57.79	8468	335 20:47:09	92.32	2225
335 19:21:23	-16.27	12096	335 21:46:14	31.44	8469	335 22:32:05	65.97	2226
335 21:06:45	-42.73	12097	335 23:31:06	5.10	8470			
335 22:52:06	-69.19	12098				336 00:17:00	39.61	2227
			336 01:15:59	-21.25	8471	336 02:01:56	13.25	2228
336 00:37:27	-95.66	12099	336 03:00:52	-47.59	8472	336 03:46:52	-13.11	2229
336 02:22:48	-122.12	12100	336 04:45:45	-73.94	8473	336 05:31:48	-39.47	2230
336 04:08:10	-148.59	12101	336 06:30:37	-100.28	8474	336 07:16:44	-65.83	2231
336 05:53:31	-175.05	12102	336 08:15:30	-126.63	8475	336 09:01:40	-92.18	2232
336 07:38:52	158.48	12103	336 10:00:23	-152.97	8476	336 10:46:36	-118.54	2233
336 09:24:13	132.02	12104	336 11:45:16	-179.32	8477	336 12:31:32	-144.90	2234
336 11:09:35	105.56	12105	336 13:30:08	154.33	8478	336 14:16:27	-171.26	2235
336 12:54:56	79.09	12106	336 15:15:01	127.99	8479	336 16:01:23	162.38	2236
336 14:40:17	52.63	12107	336 16:59:54	101.64	8480	336 17:46:19	136.02	2237
336 16:25:38	26.16	12108	336 18:44:47	75.30	8481	336 19:31:15	109.66	2238
336 18:11:00	-30	12109	336 20:29:39	48.95	8482	336 21:16:11	83.31	2239
336 19:56:21	-26.76	12110	336 22:14:32	22.61	8483	336 23:01:07	56.95	2240
336 21:41:42	-53.23	12111	336 23:59:25	-3.74	8484			
336 23:27:03	-79.69	12112						

West longitude is negative (—)

Satellite 1			Satellite 2			Satellite 3		
TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg.dg		day hr mn sc	deg.dg		day hr mn sc	deg.dg	
337 01:12:25	-106.16	12113	337 01:44:18	-30.08	8485	337 00:46:03	30.59	2241
337 02:57:46	-132.62	12114	337 03:29:10	-56.43	8486	337 02:30:59	4.23	2242
337 04:43:07	-159.09	12115	337 05:14:03	-82.77	8487	337 04:15:55	-22.13	2243
337 06:28:28	174.45	12116	337 06:58:56	-109.12	8488	337 06:00:50	-48.49	2244
337 08:13:49	147.98	12117	337 08:43:49	-135.46	8489	337 07:45:46	-74.84	2245
337 09:59:11	121.52	12118	337 10:28:41	-161.81	8490	337 09:30:42	-101.20	2246
337 11:44:32	95.06	12119	337 12:13:34	171.84	8491	337 11:15:38	-127.56	2247
337 13:29:53	68.59	12120	337 13:58:27	145.50	8492	337 13:00:34	-153.92	2248
337 15:15:14	42.13	12121	337 15:43:20	119.15	8493	337 14:45:30	179.72	2249
337 17:00:36	15.67	12122	337 17:28:12	92.81	8494	337 16:30:26	153.37	2250
337 18:45:57	-10.80	12123	337 19:13:05	66.46	8495	337 18:15:22	127.01	2251
337 20:31:18	-37.26	12124	337 20:57:58	40.12	8496	337 20:00:17	100.65	2252
337 22:16:39	-63.73	12125	337 22:42:51	13.77	8497	337 21:45:13	74.29	2253
						337 23:30:09	47.93	2254
338 00:02:01	-90.19	12126	338 00:27:44	-12.57	8498	338 01:15:05	21.57	2255
338 01:47:22	-116.66	12127	338 02:12:36	-38.92	8499	338 03:00:01	-4.79	2256
338 03:32:43	-143.12	12128	338 03:57:29	-65.26	8500	338 04:44:57	-31.14	2257
338 05:18:04	-169.59	12129	338 05:42:22	-91.61	8501	338 06:29:53	-57.50	2258
338 07:03:26	163.95	12130	338 07:27:15	-117.95	8502	338 08:14:49	-83.86	2259
338 08:48:47	137.49	12131	338 09:12:07	-144.30	8503	338 09:59:45	-110.22	2260
338 10:34:08	111.02	12132	338 10:57:00	-170.65	8504	338 11:44:40	-136.58	2261
338 12:19:29	84.56	12133	338 12:41:53	163.01	8505	338 13:29:36	-162.94	2262
338 14:04:51	58.09	12134	338 14:26:46	136.66	8506	338 15:14:32	170.71	2263
338 15:50:12	31.63	12135	338 16:11:38	110.32	8507	338 16:59:28	144.35	2264
338 17:35:33	5.16	12136	338 17:56:31	83.97	8508	338 18:44:24	117.99	2265
338 19:20:54	-21.30	12137	338 19:41:24	57.63	8509	338 20:29:20	91.63	2266
338 21:06:16	-47.76	12138	338 21:26:17	31.28	8510	338 22:14:16	65.27	2267
338 22:51:37	-74.23	12139	338 23:11:09	4.94	8511	338 23:59:12	38.92	2268
339 00:36:58	-100.69	12140	339 00:56:02	-21.41	8512	339 01:44:07	12.56	2269
339 02:22:19	-127.16	12141	339 02:40:55	-47.75	8513	339 03:29:03	-13.80	2270
339 04:07:41	-153.62	12142	339 04:25:48	-74.10	8514	339 05:13:59	-40.16	2271
339 05:53:02	179.92	12143	339 06:10:40	-100.45	8515	339 06:58:55	-66.52	2272
339 07:38:23	153.45	12144	339 07:55:33	-126.79	8516	339 08:43:51	-92.88	2273
339 09:23:44	126.99	12145	339 09:40:26	-153.14	8517	339 10:28:47	-119.23	2274
339 11:09:06	100.52	12146	339 11:25:19	-179.48	8518	339 12:13:43	-145.59	2275
339 12:54:27	74.06	12147	339 13:10:11	154.17	8519	339 13:58:39	-171.95	2276
339 14:39:48	47.59	12148	339 14:55:04	127.83	8520	339 15:43:35	161.69	2277
339 16:25:09	21.13	12149	339 16:39:57	101.48	8521	339 17:28:30	135.33	2278
339 18:10:30	-5.34	12150	339 18:24:50	75.14	8522	339 19:13:26	108.97	2279
339 19:55:52	-31.80	12151	339 20:09:42	48.79	8523	339 20:58:22	82.61	2280
339 21:41:13	-58.26	12152	339 21:54:35	22.45	8524	339 22:43:18	56.26	2281
339 23:26:34	-84.73	12153	339 23:39:28	-3.90	8525			
340 01:11:55	-111.19	12154	340 01:24:21	-30.24	8526	340 00:28:14	29.90	2282
340 02:57:17	-137.65	12155	340 03:09:13	-56.59	8527	340 02:13:10	3.54	2283
340 04:42:38	-164.12	12156	340 04:54:06	-82.94	8528	340 03:58:06	-22.82	2284
340 06:27:59	169.42	12157	340 06:38:59	-109.28	8529	340 05:43:02	-49.18	2285
340 08:13:20	142.95	12158	340 08:23:52	-135.62	8530	340 07:27:57	-75.54	2286
340 09:58:42	116.49	12159	340 10:08:44	-161.97	8531	340 09:12:53	-101.89	2287
340 11:44:03	90.02	12160	340 11:53:37	171.68	8532	340 10:57:49	-128.25	2288
340 13:29:24	63.56	12161	340 13:38:30	145.34	8533	340 12:42:45	-154.61	2289
340 15:14:45	37.09	12162	340 15:23:23	118.99	8534	340 14:27:41	179.03	2290
340 17:00:07	10.63	12163	340 17:08:15	92.65	8535	340 16:12:37	152.67	2291
340 18:45:28	-15.83	12164	340 18:53:08	66.30	8536	340 17:57:33	126.32	2292
340 20:30:49	-42.30	12165	340 20:38:01	39.96	8537	340 19:42:29	99.96	2293
340 22:16:10	-68.76	12166	340 22:22:54	13.61	8538	340 21:27:25	73.60	2294
						340 23:12:20	47.24	2295

West longitude is negative (—)

Satellite 1			Satellite 2			Satellite 3		
TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg.dg		day hr mn sc	deg.dg		day hr mn sc	deg.dg	
341 00:01:32	-95.23	12167	341 00:07:46	-12.74	8539	341 00:57:16	20.88	2296
341 01:46:53	-121.69	12168	341 01:52:39	-39.08	8540	341 02:42:12	-5.48	2297
341 03:32:14	-148.16	12169	341 03:37:32	-65.43	8541	341 04:27:08	-31.84	2298
341 05:17:35	-174.62	12170	341 05:22:25	-91.77	8542	341 06:12:04	-58.19	2299
341 07:02:57	158.92	12171	341 07:07:17	-118.12	8543	341 07:57:00	-84.55	2300
341 08:48:18	132.45	12172	341 08:52:10	-144.46	8544	341 09:41:56	-110.91	2301
341 10:33:39	105.99	12173	341 10:37:03	-170.81	8545	341 11:26:52	-137.27	2302
341 12:19:00	79.52	12174	341 12:21:56	162.85	8546	341 13:11:47	-163.63	2303
341 14:04:22	53.06	12175	341 14:06:48	136.50	8547	341 14:56:43	170.01	2304
341 15:49:43	26.60	12176	341 15:51:41	110.16	8548	341 16:41:39	143.66	2305
341 17:35:04	13	12177	341 17:36:34	83.81	8549	341 18:26:35	117.30	2306
341 19:20:25	-26.33	12178	341 19:21:27	57.47	8550	341 20:11:31	90.94	2307
341 21:05:47	-52.80	12179	341 21:06:19	31.12	8551	341 21:56:27	64.58	2308
341 22:51:08	-79.26	12180	341 22:51:12	4.77	8552	341 23:41:23	38.22	2309
342 00:36:29	-105.73	12181	342 00:36:05	-21.57	8553	342 01:26:19	11.87	2310
342 02:21:50	-132.19	12182	342 02:20:58	-47.91	8554	342 03:11:15	-14.49	2311
342 04:07:12	-158.65	12183	342 04:05:50	-74.26	8555	342 04:56:10	-40.85	2312
342 05:52:33	174.88	12184	342 05:50:43	-100.61	8556	342 06:41:06	-67.21	2313
342 07:37:54	148.42	12185	342 07:35:36	-126.95	8557	342 08:26:02	-93.57	2314
342 09:23:15	121.95	12186	342 09:20:29	-153.30	8558	342 10:10:58	-119.93	2315
342 11:08:37	95.49	12187	342 11:05:21	-179.64	8559	342 11:55:54	-146.29	2316
342 12:53:58	69.03	12188	342 12:50:14	154.01	8560	342 13:40:50	-172.64	2317
342 14:39:19	42.56	12189	342 14:35:07	127.67	8561	342 15:25:46	161.00	2318
342 16:24:40	16.10	12190	342 16:20:00	101.32	8562	342 17:10:42	134.64	2319
342 18:10:01	-10.37	12191	342 18:04:52	74.97	8563	342 18:55:37	108.28	2320
342 19:55:23	-36.83	12192	342 19:49:45	48.63	8564	342 20:40:33	81.92	2321
342 21:40:44	-63.30	12193	342 21:34:38	22.28	8565	342 22:25:29	55.56	2322
342 23:26:05	-89.76	12194	342 23:19:31	-4.06	8566			
343 01:11:26	-116.23	12195	343 01:04:23	-30.41	8567	343 00:10:25	29.21	2323
343 02:56:48	-142.69	12196	343 02:49:16	-56.75	8568	343 01:55:21	2.85	2324
343 04:42:09	-169.15	12197	343 04:34:09	-83.10	8569	343 03:40:17	-23.51	2325
343 06:27:30	164.38	12198	343 06:19:02	-109.44	8570	343 05:25:13	-49.87	2326
343 08:12:51	137.92	12199	343 08:03:54	-135.79	8571	343 07:10:09	-76.23	2327
343 09:58:13	111.45	12200	343 09:48:47	-162.13	8572	343 08:55:05	-102.58	2328
343 11:43:34	84.99	12201	343 11:33:40	171.52	8573	343 10:40:00	-128.95	2329
343 13:28:55	58.52	12202	343 13:18:33	145.18	8574	343 12:24:56	-155.30	2330
343 15:14:16	32.06	12203	343 15:03:25	118.83	8575	343 14:09:52	178.34	2331
343 16:59:38	5.60	12204	343 16:48:18	92.48	8576	343 15:54:48	151.98	2332
343 18:44:59	-20.87	12205	343 18:33:11	66.14	8577	343 17:39:44	125.62	2333
343 20:30:20	-47.33	12206	343 20:18:04	39.80	8578	343 19:24:40	99.26	2334
343 22:15:41	-73.80	12207	343 22:02:56	13.45	8579	343 21:09:36	72.91	2335
344 00:01:03	-100.26	12208	344 01:32:42	-39.24	8581	344 00:39:27	20.19	2337
344 01:46:24	-126.72	12209	344 03:17:35	-65.59	8582	344 02:24:23	-6.17	2338
344 03:31:45	-153.19	12210	344 05:02:27	-91.93	8583	344 04:09:19	-32.53	2339
344 05:17:06	-179.65	12211	344 06:47:20	-118.28	8584	344 05:54:15	-58.89	2340
344 07:02:28	153.88	12212	344 08:32:13	-144.62	8585	344 07:39:11	-85.24	2341
344 08:47:49	127.42	12213	344 10:17:06	-170.97	8586	344 09:24:07	-111.60	2342
344 10:33:10	100.95	12214	344 12:01:58	162.68	8587	344 11:09:03	-137.96	2343
344 12:18:31	74.49	12215	344 13:46:51	136.34	8588	344 12:53:59	-164.32	2344
344 14:03:53	48.03	12216	344 15:31:44	109.99	8589	344 14:38:55	169.32	2345
344 15:49:14	21.56	12217	344 17:16:37	83.65	8590	344 16:23:50	142.96	2346
344 17:34:35	-4.90	12218	344 19:01:29	57.30	8591	344 18:08:46	116.60	2347
344 19:19:56	-31.37	12219	344 20:46:22	30.96	8592	344 19:53:42	90.25	2348
344 21:05:18	-57.83	12220	344 22:31:15	4.61	8593	344 21:38:38	63.89	2349
344 22:50:39	-84.30	12221				344 23:23:34	37.53	2350

West longitude is negative (—)

Satellite 1			Satellite 2			Satellite 3		
TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg.dg		day hr mn sc	deg.dg		day hr mn sc	deg.dg	
345 00:36:00	-110.76	12222	345 00:16:08	-21.73	8594	345 01:08:30	11.17	2351
345 02:21:21	-137.23	12223	345 02:01:00	-48.08	8595	345 02:53:26	-15.19	2352
345 04:06:43	-163.69	12224	345 03:45:53	-74.42	8596	345 04:38:22	-41.54	2353
345 05:52:04	169.85	12225	345 05:30:46	-100.77	8597	345 06:23:17	-67.90	2354
345 07:37:25	143.38	12226	345 07:15:39	-127.11	8598	345 08:08:13	-94.26	2355
345 09:22:46	116.92	12227	345 09:00:31	-153.46	8599	345 09:53:09	-120.62	2356
345 11:08:08	90.46	12228	345 10:45:24	-179.81	8600	345 11:38:05	-146.98	2357
345 12:53:29	63.99	12229	345 12:30:17	153.85	8601	345 13:23:01	-173.34	2358
345 14:38:50	37.53	12230	345 14:15:10	127.51	8602	345 15:07:57	160.31	2359
345 16:24:11	11.06	12231	345 16:00:02	101.16	8603	345 16:52:53	133.95	2360
345 18:09:33	-15.40	12232	345 17:44:55	74.81	8604	345 18:37:49	107.59	2361
345 19:54:54	-41.87	12233	345 19:29:48	48.47	8605	345 20:22:45	81.23	2362
345 21:40:15	-68.33	12234	345 21:14:41	22.12	8606	345 22:07:40	54.87	2363
345 23:25:36	-94.80	12235	345 22:59:33	-4.22	8607	345 23:52:36	28.51	2364
346 01:10:58	-121.26	12236	346 00:44:26	-30.57	8608	346 01:37:32	2.16	2365
346 02:56:19	-147.72	12237	346 02:29:19	-56.91	8609	346 03:22:28	-24.20	2366
346 04:41:40	-174.19	12238	346 04:14:12	-83.26	8610	346 05:07:24	-50.56	2367
346 06:27:01	159.35	12239	346 05:59:04	-109.61	8611	346 06:52:20	-76.92	2368
346 08:12:23	132.88	12240	346 07:43:57	-135.95	8612	346 08:37:16	-103.28	2369
346 09:57:44	106.42	12241	346 09:28:50	-162.30	8613	346 10:22:12	-129.63	2370
346 11:43:05	79.95	12242	346 11:13:43	171.36	8614	346 12:07:07	-156.00	2371
346 13:28:26	53.49	12243	346 12:58:35	145.01	8615	346 13:52:03	177.65	2372
346 15:13:48	27.03	12244	346 14:43:28	118.67	8616	346 15:36:59	151.29	2373
346 16:59:09	56	12245	346 16:28:21	92.32	8617	346 17:21:55	124.93	2374
346 18:44:30	-25.90	12246	346 18:13:14	65.98	8618	346 19:06:51	98.57	2375
346 20:29:51	-52.37	12247	346 19:58:06	39.63	8619	346 20:51:47	72.21	2376
346 22:15:13	-78.83	12248	346 21:42:59	13.29	8620	346 22:36:43	45.86	2377
			346 23:27:52	-13.06	8621			
347 00:00:34	-105.29	12249	347 01:12:45	-39.40	8622	347 00:21:39	19.50	2378
347 01:45:55	-131.76	12250	347 02:57:37	-65.75	8623	347 02:06:35	-6.86	2379
347 03:31:16	-158.22	12251	347 04:42:30	-92.10	8624	347 03:51:30	-33.22	2380
347 05:16:38	175.31	12252	347 06:27:23	-118.44	8625	347 05:36:26	-59.58	2381
347 07:01:59	148.85	12253	347 08:12:16	-144.78	8626	347 07:21:22	-85.94	2382
347 08:47:20	122.38	12254	347 09:57:08	-171.13	8627	347 09:06:18	-112.29	2383
347 10:32:41	95.92	12255	347 11:42:01	162.52	8628	347 10:51:14	-138.65	2384
347 12:18:03	69.46	12256	347 13:26:54	136.18	8629	347 12:36:10	-165.01	2385
347 14:03:24	42.99	12257	347 15:11:47	109.83	8630	347 14:21:06	168.63	2386
347 15:48:45	16.53	12258	347 16:56:40	83.49	8631	347 16:06:02	142.27	2387
347 17:34:06	-9.94	12259	347 18:41:32	57.14	8632	347 17:50:57	115.91	2388
347 19:19:28	-36.40	12260	347 20:26:25	30.80	8633	347 19:35:53	89.55	2389
347 21:04:49	-62.87	12261	347 22:11:18	4.45	8634	347 21:20:49	63.20	2390
347 22:50:10	-89.33	12262	347 23:56:11	-21.89	8635	347 23:05:45	36.84	2391
348 00:35:31	-115.80	12263	348 01:41:03	-48.24	8636	348 00:50:41	10.48	2392
348 02:20:53	-142.26	12264	348 03:25:56	-74.59	8637	348 02:35:37	-15.88	2393
348 04:06:14	-168.72	12265	348 05:10:49	-100.93	8638	348 04:20:33	-42.24	2394
348 05:51:35	164.81	12266	348 06:55:42	-127.27	8639	348 06:05:29	-68.59	2395
348 07:36:56	138.35	12267	348 08:40:34	-153.62	8640	348 07:50:24	-94.95	2396
348 09:22:18	111.89	12268	348 10:25:27	-179.97	8641	348 09:35:20	-121.31	2397
348 11:07:39	85.42	12269	348 12:10:20	153.69	8642	348 11:20:16	-147.67	2398
348 12:53:00	58.96	12270	348 13:55:13	127.34	8643	348 13:05:12	-174.03	2399
348 14:38:21	32.49	12271	348 15:40:05	101.00	8644	348 14:50:08	159.61	2400
348 16:23:43	6.03	12272	348 17:24:58	74.65	8645	348 16:35:04	133.26	2401
348 18:09:04	-20.44	12273	348 19:09:51	48.31	8646	348 18:20:00	106.90	2402
348 19:54:25	-46.90	12274	348 20:54:44	21.96	8647	348 20:04:56	80.54	2403
348 21:39:46	-73.37	12275	348 22:39:36	-4.39	8648	348 21:49:52	54.18	2404
348 23:25:08	-99.83	12276				348 23:34:47	27.82	2405

West longitude is negative (-)

Satellite 1			Satellite 2			Satellite 3		
TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg.dg		day hr mn sc	deg.dg		day hr mn sc	deg.dg	
349 01:10:29	-126.29	12277	349 00:24:29	-30.73	8649	349 01:19:43	1.46	2406
349 02:55:50	-152.76	12278	349 02:09:22	-57.07	8650	349 03:04:39	-24.90	2407
349 04:41:11	-179.22	12279	349 03:54:15	-83.42	8651	349 04:49:35	-51.25	2408
349 06:26:33	154.31	12280	349 05:39:07	-109.77	8652	349 06:34:31	-77.61	2409
349 08:11:54	127.85	12281	349 07:24:00	-136.11	8653	349 08:19:27	-103.97	2410
349 09:57:15	101.38	12282	349 09:08:53	-162.46	8654	349 10:04:23	-130.33	2411
349 11:42:36	74.92	12283	349 10:53:46	171.20	8655	349 11:49:19	-156.69	2412
349 13:27:58	48.46	12284	349 12:38:38	144.85	8656	349 13:34:14	176.95	2413
349 15:13:19	21.99	12285	349 14:23:31	118.51	8657	349 15:19:10	150.60	2414
349 16:58:40	-4.47	12286	349 16:08:24	92.16	8658	349 17:04:06	124.24	2415
349 18:44:01	-30.94	12287	349 17:53:17	65.82	8659	349 18:49:02	97.88	2416
349 20:29:23	-57.40	12288	349 19:38:09	39.47	8660	349 20:33:58	71.52	2417
349 22:14:44	-83.86	12289	349 21:23:02	13.12	8661	349 22:18:54	45.16	2418
			349 23:07:55	-13.22	8662			
350 00:00:05	-110.33	12290	350 00:52:48	-39.56	8663	350 00:03:50	18.81	2419
350 01:45:26	-136.79	12291	350 02:37:40	-65.91	8664	350 01:48:46	-7.55	2420
350 03:30:48	-163.26	12292	350 04:22:33	-92.26	8665	350 03:33:42	-33.91	2421
350 05:16:09	170.28	12293	350 06:07:26	-118.60	8666	350 05:18:37	-60.27	2422
350 07:01:30	143.81	12294	350 07:52:19	-144.95	8667	350 07:03:33	-86.63	2423
350 08:46:51	117.35	12295	350 09:37:11	-171.29	8668	350 08:48:29	-112.99	2424
350 10:32:13	90.89	12296	350 11:22:04	162.36	8669	350 10:33:25	-139.34	2425
350 12:17:34	64.42	12297	350 13:06:57	136.02	8670	350 12:18:21	-165.70	2426
350 14:02:55	37.96	12298	350 14:51:50	109.67	8671	350 14:03:17	167.94	2427
350 15:48:16	11.49	12299	350 16:36:42	83.32	8672	350 15:48:13	141.58	2428
350 17:33:38	-14.97	12300	350 18:21:35	56.98	8673	350 17:33:09	115.22	2429
350 19:18:59	-41.44	12301	350 20:06:28	30.64	8674	350 19:18:04	88.86	2430
350 21:04:20	-67.90	12302	350 21:51:21	4.29	8675	350 21:03:00	62.50	2431
350 22:49:41	-94.37	12303	350 23:36:13	-22.06	8676	350 22:47:56	36.15	2432
351 00:35:03	-120.83	12304	351 01:21:06	-48.40	8677	351 00:32:52	9.79	2433
351 02:20:24	-147.29	12305	351 03:05:59	-74.75	8678	351 02:17:48	-16.57	2434
351 04:05:45	-173.76	12306	351 04:50:52	-101.09	8679	351 04:02:44	-42.93	2435
351 05:51:06	159.78	12307	351 06:35:44	-127.44	8680	351 05:47:40	-69.29	2436
351 07:36:28	133.31	12308	351 08:20:37	-153.78	8681	351 07:32:36	-95.64	2437
351 09:21:49	106.85	12309	351 10:05:30	179.87	8682	351 09:17:31	-122.00	2438
351 11:07:10	80.38	12310	351 11:50:23	153.53	8683	351 11:02:27	-148.36	2439
351 12:52:31	53.92	12311	351 13:35:15	127.18	8684	351 12:47:23	-174.72	2440
351 14:37:53	27.46	12312	351 15:20:08	100.83	8685	351 14:32:19	158.92	2441
351 16:23:14	99	12313	351 17:05:01	74.49	8686	351 16:17:15	132.56	2442
351 18:08:35	-25.47	12314	351 18:49:54	48.15	8687	351 18:02:11	106.21	2443
351 19:53:56	-51.94	12315	351 20:34:46	21.80	8688	351 19:47:07	79.85	2444
351 21:39:18	-78.40	12316	351 22:19:39	-4.55	8689	351 21:32:03	53.49	2445
351 23:24:39	-104.86	12317				351 23:16:59	27.13	2446
352 01:10:00	-131.33	12318	352 00:04:32	-30.89	8690	352 01:01:54	77	2447
352 02:55:21	-157.79	12319	352 01:49:25	-57.24	8691	352 02:46:50	-25.59	2448
352 04:40:43	175.74	12320	352 03:34:17	-83.58	8692	352 04:31:46	-51.94	2449
352 06:26:04	149.28	12321	352 05:19:10	-109.93	8693	352 06:16:42	-78.30	2450
352 08:11:25	122.81	12322	352 07:04:03	-136.27	8694	352 08:01:38	-104.66	2451
352 09:56:46	96.35	12323	352 08:48:56	-162.62	8695	352 09:46:34	-131.02	2452
352 11:42:08	69.89	12324	352 10:33:48	171.03	8696	352 11:31:30	-157.38	2453
352 13:27:29	43.42	12325	352 12:18:41	144.69	8697	352 13:16:26	176.27	2454
352 15:12:50	16.96	12326	352 14:03:34	118.34	8698	352 15:01:21	149.90	2455
352 16:58:11	-9.51	12327	352 15:48:27	92.00	8699	352 16:46:17	123.55	2456
352 18:43:33	-35.97	12328	352 17:33:20	65.66	8700	352 18:31:13	97.19	2457
352 20:28:54	-62.44	12329	352 19:18:12	39.31	8701	352 20:16:09	70.83	2458
352 22:14:15	-88.90	12330	352 21:03:05	12.96	8702	352 22:01:05	44.47	2459
352 23:59:36	-115.37	12331	352 22:47:58	-13.38	8703	352 23:46:01	18.11	2460

West longitude is negative (—)

Satellite 1			Satellite 2			Satellite 3		
TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg. dg		day hr mn sc	deg. dg		day hr mn sc	deg. dg	
353 01:44:58	-141.83	12332	353 00:32:51	-39.73	8704	353 01:30:57	-8.24	2461
353 03:30:19	-168.29	12333	353 02:17:43	-66.07	8705	353 03:15:53	-34.60	2462
353 05:15:40	-165.24	12334	353 04:02:36	-92.42	8706	353 05:00:48	-60.96	2463
353 07:01:01	-138.78	12335	353 05:47:29	-118.76	8707	353 06:45:44	-87.32	2464
353 08:46:23	-112.32	12336	353 07:32:22	-145.11	8708	353 08:30:40	-113.68	2465
353 10:31:44	-85.85	12337	353 09:17:14	-171.46	8709	353 10:15:36	-140.04	2466
353 12:17:05	-59.39	12338	353 11:02:07	-162.20	8710	353 12:00:32	-166.39	2467
353 14:02:26	-32.92	12339	353 12:47:00	-135.85	8711	353 13:45:28	-167.25	2468
353 15:47:48	-6.46	12340	353 14:31:53	-109.51	8712	353 15:30:24	-140.89	2469
353 17:33:09	-20.01	12341	353 16:16:45	-83.16	8713	353 17:15:20	-114.53	2470
353 19:18:30	-46.47	12342	353 18:01:38	-56.82	8714	353 19:00:15	-88.17	2471
353 21:03:51	-72.94	12343	353 19:46:31	-30.47	8715	353 20:45:11	-61.81	2472
353 22:49:13	-99.40	12344	353 21:31:24	-4.13	8716	353 22:30:07	-35.45	2473
			353 23:16:16	-22.22	8717			
354 00:34:34	-125.86	12345	354 01:01:09	-48.56	8718	354 00:15:03	-9.10	2474
354 02:19:55	-152.33	12346	354 02:46:02	-74.91	8719	354 01:59:59	-17.26	2475
354 04:05:16	-178.79	12347	354 04:30:55	-101.25	8720	354 03:44:55	-43.62	2476
354 05:50:38	-154.74	12348	354 06:15:47	-127.60	8721	354 05:29:51	-69.98	2477
354 07:35:59	-128.28	12349	354 08:00:40	-153.95	8722	354 07:14:47	-96.33	2478
354 09:21:20	-101.81	12350	354 09:45:33	-179.71	8723	354 08:59:43	-122.69	2479
354 11:06:41	-75.35	12351	354 11:30:26	-153.36	8724	354 10:44:38	-149.05	2480
354 12:52:03	-48.89	12352	354 13:15:18	-127.02	8725	354 12:29:34	-175.41	2481
354 14:37:24	-22.42	12353	354 15:00:11	-100.67	8726	354 14:14:30	-158.23	2482
354 16:22:45	-4.04	12354	354 16:45:04	-74.33	8727	354 15:59:26	-131.87	2483
354 18:08:06	-30.51	12355	354 18:29:57	-47.98	8728	354 17:44:22	-105.51	2484
354 19:53:28	-56.97	12356	354 20:14:49	-21.64	8729	354 19:29:18	-79.16	2485
354 21:38:49	-83.44	12357	354 21:59:42	-4.71	8730	354 21:14:14	-52.80	2486
354 23:24:10	-109.90	12358	354 23:44:35	-31.05	8731	354 22:59:10	-26.44	2487
355 01:09:31	-136.37	12359	355 01:29:28	-57.40	8732	355 00:44:05	-08	2488
355 02:54:53	-162.83	12360	355 03:14:20	-83.75	8733	355 02:29:01	-26.28	2489
355 04:40:14	-170.71	12361	355 04:59:13	-110.09	8734	355 04:13:57	-52.64	2490
355 06:25:35	-144.24	12362	355 06:44:06	-136.44	8735	355 05:58:53	-78.99	2491
355 08:10:56	-117.78	12363	355 08:28:59	-162.78	8736	355 07:43:49	-105.35	2492
355 09:56:18	-91.31	12364	355 10:13:51	-170.87	8737	355 09:28:45	-131.71	2493
355 11:41:39	-64.85	12365	355 11:58:44	-144.53	8738	355 11:13:41	-158.07	2494
355 13:27:00	-38.38	12366	355 13:43:37	-118.18	8739	355 12:58:37	-175.57	2495
355 15:12:21	-11.92	12367	355 15:28:30	-91.84	8740	355 14:43:32	-149.21	2496
355 16:57:43	-14.54	12368	355 17:13:23	-65.49	8741	355 16:28:28	-122.85	2497
355 18:43:04	-41.01	12369	355 18:58:15	-39.15	8742	355 18:13:24	-96.50	2498
355 20:28:25	-67.47	12370	355 20:43:08	-12.80	8743	355 19:58:20	-70.14	2499
355 22:13:46	-93.94	12371	355 22:28:01	-13.54	8744	355 21:43:16	-43.78	2500
355 23:59:08	-120.40	12372				355 23:28:12	-17.42	2501
356 01:44:29	-146.86	12373	356 00:12:54	-39.89	8745	356 01:13:08	-8.93	2502
356 03:29:50	-173.33	12374	356 01:57:46	-66.24	8746	356 02:58:04	-35.29	2503
356 05:15:12	-160.21	12375	356 03:42:39	-92.58	8747	356 04:42:59	-61.65	2504
356 07:00:33	-133.74	12376	356 05:27:32	-118.93	8748	356 06:27:55	-88.01	2505
356 08:45:54	-107.28	12377	356 07:12:25	-145.27	8749	356 08:12:51	-114.37	2506
356 10:31:15	-80.81	12378	356 08:57:17	-171.62	8750	356 09:57:47	-140.73	2507
356 12:16:37	-54.35	12379	356 10:42:10	-162.04	8751	356 11:42:43	-167.09	2508
356 14:01:58	-27.89	12380	356 12:27:03	-135.69	8752	356 13:27:39	-166.56	2509
356 15:47:19	-1.42	12381	356 14:11:56	-109.35	8753	356 15:12:35	-140.20	2510
356 17:32:40	-25.04	12382	356 15:56:48	-83.00	8754	356 16:57:31	-113.84	2511
356 19:18:02	-51.51	12383	356 17:41:41	-56.66	8755	356 18:42:26	-87.48	2512
356 21:03:23	-77.97	12384	356 19:26:34	-30.31	8756	356 20:27:22	-61.12	2513
356 22:48:44	-104.44	12385	356 21:11:27	-3.97	8757	356 22:12:18	-34.76	2514
			356 22:56:19	-22.38	8758	356 23:57:14	-8.41	2515

West longitude is negative (-)

Satellite 1			Satellite 2			Satellite 3		
TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg.dg		day hr mn sc	deg.dg		day hr mn sc	deg.dg	
357 00:34:05	-130.90	12386	357 00:41:12	-48.73	8759	357 01:42:10	-17.95	2516
357 02:19:27	-157.36	12387	357 02:26:05	-75.07	8760	357 03:27:06	-44.31	2517
357 04:04:48	176.17	12388	357 04:10:58	-101.42	8761	357 05:12:02	-70.67	2518
357 05:50:09	149.71	12389	357 05:55:50	-127.76	8762	357 06:56:58	-97.03	2519
357 07:35:30	123.24	12390	357 07:40:43	-154.11	8763	357 08:41:53	-123.39	2520
357 09:20:52	96.78	12391	357 09:25:36	179.55	8764	357 10:26:49	-149.74	2521
357 11:06:13	70.31	12392	357 11:10:29	153.20	8765	357 12:11:45	-176.10	2522
357 12:51:34	43.85	12393	357 12:55:21	126.85	8766	357 13:56:41	157.54	2523
357 14:36:55	17.38	12394	357 14:40:14	100.51	8767	357 15:41:37	131.18	2524
357 16:22:17	-9.08	12395	357 16:25:07	74.16	8768	357 17:26:33	104.82	2525
357 18:07:38	-35.54	12396	357 18:10:00	47.82	8769	357 19:11:29	78.47	2526
357 19:52:59	-62.01	12397	357 19:54:52	21.47	8770	357 20:56:25	52.11	2527
357 21:38:20	-88.47	12398	357 21:39:45	-4.87	8771	357 22:41:20	25.75	2528
357 23:23:42	-114.94	12399	357 23:24:38	-31.22	8772			
358 01:09:03	-141.40	12400	358 01:09:31	-57.56	8773	358 00:26:16	-61	2529
358 02:54:24	-167.87	12401	358 02:54:24	-83.91	8774	358 02:11:12	-26.97	2530
358 04:39:45	165.67	12402	358 04:39:16	-110.25	8775	358 03:56:08	-53.33	2531
358 06:25:07	139.21	12403	358 06:24:09	-136.60	8776	358 05:41:04	-79.69	2532
358 08:10:28	112.74	12404	358 08:09:02	-162.94	8777	358 07:26:00	-106.04	2533
358 09:55:49	86.28	12405	358 09:53:55	170.71	8778	358 09:10:56	-132.40	2534
358 11:41:10	59.81	12406	358 11:38:47	144.36	8779	358 10:55:52	-158.76	2535
358 13:26:32	33.35	12407	358 13:23:40	118.02	8780	358 12:40:47	174.88	2536
358 15:11:53	6.89	12408	358 15:08:33	91.67	8781	358 14:25:43	148.52	2537
358 16:57:14	-19.58	12409	358 16:53:26	65.33	8782	358 16:10:39	122.16	2538
358 18:42:36	-46.04	12410	358 18:38:18	38.98	8783	358 17:55:35	95.81	2539
358 20:27:57	-72.51	12411	358 20:23:11	12.64	8784	358 19:40:31	69.45	2540
358 22:13:18	-98.97	12412	358 22:08:04	-13.71	8785	358 21:25:27	43.09	2541
358 23:58:39	-125.44	12413	358 23:52:57	-40.05	8786	358 23:10:23	16.73	2542
359 01:44:01	-151.90	12414	359 01:37:49	-66.40	8787	359 00:55:19	-9.63	2543
359 03:29:22	-178.36	12415	359 03:22:42	-92.74	8788	359 02:40:14	-35.99	2544
359 05:14:43	155.17	12416	359 05:07:35	-119.09	8789	359 04:25:10	-62.34	2545
359 07:00:04	128.71	12417	359 06:52:28	-145.43	8790	359 06:10:06	-88.70	2546
359 08:45:26	102.24	12418	359 08:37:20	-171.78	8791	359 07:55:02	-115.06	2547
359 10:30:47	75.78	12419	359 10:22:13	161.87	8792	359 09:39:58	-141.42	2548
359 12:16:08	49.31	12420	359 12:07:06	135.53	8793	359 11:24:54	-167.78	2549
359 14:01:29	22.85	12421	359 13:51:59	109.18	8794	359 13:09:50	165.87	2550
359 15:46:51	-3.61	12422	359 15:36:51	82.84	8795	359 14:54:46	139.51	2551
359 17:32:12	-30.08	12423	359 17:21:44	56.49	8796	359 16:39:41	113.15	2552
359 19:17:33	-56.54	12424	359 19:06:37	30.15	8797	359 18:24:37	86.79	2553
359 21:02:54	-83.01	12425	359 20:51:30	3.80	8798	359 20:09:33	60.43	2554
359 22:48:16	-109.47	12426	359 22:36:23	22.54	8799	359 21:54:29	34.07	2555
						359 23:39:25	7.72	2556
360 00:33:37	-135.94	12427	360 00:21:15	-48.89	8800	360 01:24:21	-18.64	2557
360 02:18:58	-162.40	12428	360 02:06:08	-75.24	8801	360 03:09:17	-45.00	2558
360 04:04:19	171.13	12429	360 03:51:01	-101.58	8802	360 04:54:13	-71.36	2559
360 05:49:41	144.67	12430	360 05:35:54	-127.92	8803	360 06:39:08	-97.72	2560
360 07:35:02	118.21	12431	360 07:20:46	-154.27	8804	360 08:24:04	-124.08	2561
360 09:20:23	91.74	12432	360 09:05:39	179.38	8805	360 10:09:00	-150.44	2562
360 11:05:44	65.28	12433	360 10:50:32	153.04	8806	360 11:53:56	-176.79	2563
360 12:51:06	38.81	12434	360 12:35:25	126.69	8807	360 13:38:52	156.85	2564
360 14:36:27	12.35	12435	360 14:20:17	100.35	8808	360 15:23:48	130.49	2565
360 16:21:48	-14.12	12436	360 16:05:10	74.00	8809	360 17:08:44	104.13	2566
360 18:07:10	-40.58	12437	360 17:50:03	47.66	8810	360 18:53:40	77.78	2567
360 19:52:31	-67.04	12438	360 19:34:56	21.31	8811	360 20:38:35	51.41	2568
360 21:37:52	-93.51	12439	360 21:19:48	-5.04	8812	360 22:23:31	25.06	2569
360 23:23:13	-119.97	12440	360 23:04:41	-31.38	8813			

West longitude is negative (-)

Satellite 1				Satellite 2				Satellite 3			
TIME (GMT)	E. LONG.	ORBIT		TIME (GMT)	E. LONG.	ORBIT		TIME (GMT)	E. LONG.	ORBIT	
day hr mn sc	deg.dg			day hr mn sc	deg.dg			day hr mn sc	deg.dg		
361 01:08:35	-146.44	12441		361 00:49:34	-57.73	8814		361 00:08:27	-1.30	2570	
361 02:53:56	-172.90	12442		361 02:34:27	-84.07	8815		361 01:53:23	-27.66	2571	
361 04:39:17	160.63	12443		361 04:19:19	-110.42	8816		361 03:38:19	-54.02	2572	
361 06:24:38	134.17	12444		361 06:04:12	-136.76	8817		361 05:23:15	-80.38	2573	
361 08:10:00	107.71	12445		361 07:49:05	-163.11	8818		361 07:08:11	-106.73	2574	
361 09:55:21	81.24	12446		361 09:33:58	170.55	8819		361 08:53:07	-133.09	2575	
361 11:40:42	54.78	12447		361 11:18:51	144.20	8820		361 10:38:02	-159.45	2576	
361 13:26:03	28.31	12448		361 13:03:43	117.86	8821		361 12:22:58	174.19	2577	
361 15:11:25	1.85	12449		361 14:48:36	91.51	8822		361 14:07:54	147.83	2578	
361 16:56:46	-24.62	12450		361 16:33:29	65.17	8823		361 15:52:50	121.47	2579	
361 18:42:07	-51.08	12451		361 18:18:22	38.82	8824		361 17:37:46	95.12	2580	
361 20:27:28	-77.55	12452		361 20:03:14	12.47	8825		361 19:22:42	68.76	2581	
361 22:12:50	-104.01	12453		361 21:48:07	-13.87	8826		361 21:07:38	42.40	2582	
361 23:58:11	-130.47	12454		361 23:33:00	-40.22	8827		361 22:52:34	16.04	2583	
362 01:43:32	-156.94	12455		362 01:17:53	-66.56	8828		362 00:37:29	-10.32	2584	
362 03:28:53	176.60	12456		362 03:02:45	-92.91	8829		362 02:22:25	-36.68	2585	
362 05:14:15	150.13	12457		362 04:47:38	-119.25	8830		362 04:07:21	-63.03	2586	
362 06:59:36	123.67	12458		362 06:32:31	-145.60	8831		362 05:52:17	-89.39	2587	
362 08:44:57	97.20	12459		362 08:17:24	-171.94	8832		362 07:37:13	-115.75	2588	
362 10:30:19	70.74	12460		362 10:02:16	161.71	8833		362 09:22:09	-142.11	2589	
362 12:15:40	44.28	12461		362 11:47:09	135.36	8834		362 11:07:05	-168.47	2590	
362 14:01:01	17.81	12462		362 13:32:02	109.02	8835		362 12:52:01	165.18	2591	
362 15:46:22	-8.65	12463		362 15:16:55	82.68	8836		362 14:36:56	138.82	2592	
362 17:31:44	-35.11	12464		362 17:01:47	56.33	8837		362 16:21:52	112.46	2593	
362 19:17:05	-61.58	12465		362 18:46:40	29.98	8838		362 18:06:48	86.10	2594	
362 21:02:26	-88.04	12466		362 20:31:33	3.64	8839		362 19:51:44	59.74	2595	
362 22:47:47	-114.51	12467		362 22:16:26	-22.71	8840		362 21:36:40	33.38	2596	
								362 23:21:36	7.03	2597	
363 00:33:09	-140.97	12468		363 00:01:19	-49.05	8841		363 01:06:32	-19.33	2598	
363 02:18:30	-167.44	12469		363 01:46:11	-75.40	8842		363 02:51:27	-45.69	2599	
363 04:03:51	166.10	12470		363 03:31:04	-101.74	8843		363 04:36:23	-72.05	2600	
363 05:49:12	139.63	12471		363 05:15:57	-128.09	8844		363 06:21:19	-98.41	2601	
363 07:34:34	113.17	12472		363 07:00:50	-154.43	8845		363 08:06:15	-124.77	2602	
363 09:19:55	86.71	12473		363 08:45:42	179.22	8846		363 09:51:11	-151.12	2603	
363 11:05:16	60.24	12474		363 10:30:35	152.87	8847		363 11:36:07	-177.48	2604	
363 12:50:37	33.78	12475		363 12:15:28	126.53	8848		363 13:21:03	156.16	2605	
363 14:35:59	7.31	12476		363 14:00:21	100.18	8849		363 15:05:59	129.80	2606	
363 16:21:20	-19.15	12477		363 15:45:13	73.84	8850		363 16:50:54	103.44	2607	
363 18:06:41	-45.62	12478		363 17:30:06	47.49	8851		363 18:35:50	77.08	2608	
363 19:52:02	-72.08	12479		363 19:14:59	21.15	8852		363 20:20:46	50.72	2609	
363 21:37:24	-98.54	12480		363 20:59:52	-5.20	8853		363 22:05:42	24.37	2610	
363 23:22:45	-125.01	12481		363 22:44:44	-31.55	8854		363 23:50:38	-1.99	2611	
364 01:08:06	-151.47	12482		364 00:29:37	-57.89	8855		364 01:35:34	-28.35	2612	
364 02:53:28	-177.94	12483		364 02:14:30	-84.23	8856		364 03:20:30	-54.71	2613	
364 04:38:49	155.60	12484		364 03:59:23	-110.58	8857		364 05:05:26	-81.06	2614	
364 06:24:10	129.13	12485		364 05:44:16	-136.92	8858		364 06:50:21	-107.43	2615	
364 08:09:31	102.67	12486		364 07:29:08	-163.27	8859		364 08:35:17	-133.78	2616	
364 09:54:53	76.21	12487		364 09:14:01	170.38	8860		364 10:20:13	-160.14	2617	
364 11:40:14	49.74	12488		364 10:58:54	144.04	8861		364 12:05:09	173.50	2618	
364 13:25:35	23.28	12489		364 12:43:47	117.69	8862		364 13:50:05	147.14	2619	
364 15:10:56	-3.19	12490		364 14:28:39	91.35	8863		364 15:35:01	120.78	2620	
364 16:56:18	-29.65	12491		364 16:13:32	65.00	8864		364 17:19:57	94.43	2621	
364 18:41:39	-56.12	12492		364 17:58:25	38.66	8865		364 19:04:53	68.07	2622	
364 20:27:00	-82.58	12493		364 19:43:18	12.31	8866		364 20:49:48	41.71	2623	
364 22:12:21	-109.05	12494		364 21:28:10	-14.04	8867		364 22:34:44	15.35	2624	
364 23:57:43	-135.51	12495		364 23:13:03	-40.38	8868					

West longitude is negative (-)

Satellite 1

Satellite 2

Satellite 3

TIME (GMT) E. LONG. ORBIT
day hr mn sc deg.dg

365 01:43:04 -161.97 12496
365 03:28:25 171.56 12497
365 05:13:46 145.10 12498
365 06:59:08 118.63 12499
365 08:44:29 92.17 12500
365 10:29:50 65.70 12501
365 12:15:12 39.24 12502
365 14:00:33 12.78 12503
365 15:45:54 -13.69 12504
365 17:31:15 -40.15 12505
365 19:16:37 -66.62 12506
365 21:01:58 -93.08 12507
365 22:47:19 -119.55 12508

366 00:32:40 -146.01 12509
366 02:18:02 -172.47 12510
366 04:03:23 161.06 12511
366 05:48:44 134.60 12512
366 07:34:05 108.13 12513
366 09:19:27 81.67 12514
366 11:04:48 55.20 12515
366 12:50:09 28.74 12516
366 14:35:31 2.28 12517
366 16:20:52 -24.19 12518
366 18:06:13 -50.65 12519
366 19:51:34 -77.12 12520
366 21:36:56 -103.58 12521
366 23:22:17 -130.05 12522

TIME (GMT) E. LONG. ORBIT
day hr mn sc deg.dg

365 00:57:56 -66.73 8869
365 02:42:49 -93.07 8870
365 04:27:42 -119.42 8871
365 06:12:34 -145.76 8872
365 07:57:27 -172.11 8873
365 09:42:20 161.55 8874
365 11:27:13 135.20 8875
365 13:12:05 108.85 8876
365 14:56:58 82.51 8877
365 16:41:51 56.17 8878
365 18:26:44 29.82 8879
365 20:11:36 3.47 8880
365 21:56:29 -22.87 8881
365 23:41:22 -49.22 8882

366 01:26:15 -75.56 8883
366 03:11:07 -101.91 8884
366 04:56:00 -128.25 8885
366 06:40:53 -154.60 8886
366 08:25:46 179.06 8887
366 10:10:39 152.71 8888
366 11:55:31 126.36 8889
366 13:40:24 100.02 8890
366 15:25:17 73.67 8891
366 17:10:10 47.33 8892
366 18:55:02 20.98 8893
366 20:39:55 -5.36 8894
366 22:24:48 -31.71 8895

TIME (GMT) E. LONG. ORBIT
day hr mn sc deg.dg

365 00:19:40 -11.01 2625
365 02:04:36 -37.37 2626
365 03:49:32 -63.72 2627
365 05:34:28 -90.08 2628
365 07:19:24 -116.44 2629
365 09:04:19 -142.80 2630
365 10:49:15 -169.16 2631
365 12:34:11 164.48 2632
365 14:19:07 138.13 2633
365 16:04:03 111.77 2634
365 17:48:59 85.41 2635
365 19:33:55 59.05 2636
365 21:18:51 32.69 2637
365 23:03:46 6.33 2638

366 00:48:42 -20.02 2639
366 02:33:38 -46.38 2640
366 04:18:34 -72.74 2641
366 06:03:30 -99.10 2642
366 07:48:26 -125.46 2643
366 09:33:22 -151.81 2644
366 11:18:17 -178.17 2645
366 13:03:13 155.47 2646
366 14:48:09 129.11 2647
366 16:33:05 102.75 2648
366 18:18:01 76.39 2649
366 20:02:57 50.04 2650
366 21:47:53 23.68 2651
366 23:32:49 -2.68 2652

West longitude is negative (-)

ORIGINAL PAGE IS
OF POOR QUALITY

Satellite 1			Satellite 2			Satellite 3		
TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg. dg		day hr mn sc	deg. dg		day hr mn sc	deg. dg	
001 01:07:38	-156.51	12523	001 00:09:41	-58.05	8896	001 01:17:44	-29.04	2653
001 02:52:59	177.02	12524	001 01:54:33	-84.40	8897	001 03:02:40	-55.40	2654
001 04:38:21	150.56	12525	001 03:39:26	-110.75	8898	001 04:47:36	-81.76	2655
001 06:23:42	124.10	12526	001 05:24:19	-137.09	8899	001 06:32:32	-108.11	2656
001 08:09:03	97.63	12527	001 07:09:12	-163.43	8900	001 08:17:28	-134.47	2657
001 09:54:24	71.17	12528	001 08:54:05	-170.22	8901	001 10:02:24	-160.83	2658
001 11:39:46	44.70	12529	001 10:38:57	-143.87	8902	001 11:47:20	-172.81	2659
001 13:25:07	18.24	12530	001 12:23:50	-117.53	8903	001 13:32:16	-146.45	2660
001 15:10:28	-8.23	12531	001 14:08:43	-91.18	8904	001 15:17:11	-120.09	2661
001 16:55:49	-34.69	12532	001 15:53:36	-64.84	8905	001 17:02:07	-93.74	2662
001 18:41:11	-61.15	12533	001 17:38:28	-38.49	8906	001 18:47:03	-67.38	2663
001 20:26:32	-87.62	12534	001 19:23:21	-12.15	8907	001 20:31:59	-41.02	2664
001 22:11:53	-114.08	12535	001 21:08:14	-14.20	8908	001 22:16:55	-14.66	2665
001 23:57:15	-140.55	12536	001 22:53:07	-40.54	8909			
002 01:42:36	-167.01	12537	002 00:37:59	-66.89	8910	002 00:01:51	-11.70	2666
002 03:27:57	166.52	12538	002 02:22:52	-93.24	8911	002 01:46:47	-38.05	2667
002 05:13:18	140.06	12539	002 04:07:45	-119.58	8912	002 03:31:42	-64.41	2668
002 06:58:40	113.60	12540	002 05:52:38	-145.93	8913	002 05:16:38	-90.77	2669
002 08:44:01	87.13	12541	002 07:37:31	-172.27	8914	002 07:01:34	-117.13	2670
002 10:29:22	60.67	12542	002 09:22:23	-161.38	8915	002 08:46:30	-143.49	2671
002 12:14:43	34.20	12543	002 11:07:16	-135.04	8916	002 10:31:26	-169.85	2672
002 14:00:05	7.74	12544	002 12:52:09	-108.69	8917	002 12:16:22	-163.80	2673
002 15:45:26	-18.73	12545	002 14:37:02	-82.35	8918	002 14:01:18	-137.44	2674
002 17:30:47	-45.19	12546	002 16:21:54	-56.00	8919	002 15:46:14	-111.08	2675
002 19:16:08	-71.66	12547	002 18:06:47	-29.65	8920	002 17:31:09	-84.72	2676
002 21:01:30	-98.12	12548	002 19:51:40	-3.31	8921	002 19:16:05	-58.36	2677
002 22:46:51	-124.58	12549	002 21:36:33	-23.04	8922	002 21:01:01	-32.00	2678
			002 23:21:25	-49.38	8923	002 22:45:57	-5.65	2679
003 00:32:12	-151.05	12550	003 01:06:18	-75.73	8924	003 00:30:53	-20.71	2680
003 02:17:34	-177.51	12551	003 02:51:11	-102.07	8925	003 02:15:49	-47.07	2681
003 04:02:55	156.02	12552	003 04:36:04	-128.42	8926	003 04:00:45	-73.43	2682
003 05:48:16	129.56	12553	003 06:20:57	-154.76	8927	003 05:45:40	-99.79	2683
003 07:33:37	103.09	12554	003 08:05:49	-178.89	8928	003 07:30:36	-126.15	2684
003 09:18:59	76.63	12555	003 09:50:42	-152.55	8929	003 09:15:32	-152.50	2685
003 11:04:20	50.17	12556	003 11:35:35	-126.20	8930	003 11:00:28	-178.86	2686
003 12:49:41	23.70	12557	003 13:20:28	-99.86	8931	003 12:45:24	-154.78	2687
003 14:35:02	-2.76	12558	003 15:05:20	-73.51	8932	003 14:30:20	-128.42	2688
003 16:20:24	-29.23	12559	003 16:50:13	-47.16	8933	003 16:15:16	-102.06	2689
003 18:05:45	-55.69	12560	003 18:35:06	-20.82	8934	003 18:00:11	-75.70	2690
003 19:51:06	-82.16	12561	003 20:19:59	-5.53	8935	003 19:45:07	-49.35	2691
003 21:36:27	-108.62	12562	003 22:04:52	-31.87	8936	003 21:30:03	-22.99	2692
003 23:21:49	-135.08	12563	003 23:49:44	-58.22	8937	003 23:14:59	-3.37	2693
004 01:07:10	-161.55	12564	004 01:34:37	-84.56	8938	004 00:59:55	-29.73	2694
004 02:52:31	171.99	12565	004 03:19:30	-110.91	8939	004 02:44:51	-56.09	2695
004 04:37:53	145.52	12566	004 05:04:23	-137.25	8940	004 04:29:47	-82.44	2696
004 06:23:14	119.06	12567	004 06:49:15	-163.60	8941	004 06:14:43	-108.80	2697
004 08:08:35	92.59	12568	004 08:34:08	-170.05	8942	004 07:59:38	-135.16	2698
004 09:53:56	66.13	12569	004 10:19:01	-143.71	8943	004 09:44:34	-161.52	2699
004 11:39:18	39.67	12570	004 12:03:54	-117.36	8944	004 11:29:30	-172.12	2700
004 13:24:39	13.20	12571	004 13:48:46	-91.02	8945	004 13:14:26	-145.76	2701
004 15:10:00	-13.26	12572	004 15:33:39	-64.67	8946	004 14:59:22	-119.41	2702
004 16:55:21	-39.73	12573	004 17:18:32	-38.33	8947	004 16:44:18	-93.05	2703
004 18:40:43	-66.19	12574	004 19:03:25	-11.98	8948	004 18:29:14	-66.69	2704
004 20:26:04	-92.66	12575	004 20:48:18	-14.36	8949	004 20:14:09	-40.33	2705
004 22:11:25	-119.12	12576	004 22:33:10	-40.71	8950	004 21:59:05	-13.97	2706
004 23:56:47	-145.58	12577				004 23:44:01	-12.39	2707

West longitude is negative (-)

Satellite 1			Satellite 2			Satellite 3		
TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg. dg		day hr mn sc	deg. dg		day hr mn sc	deg. dg	
005 01:42:08	-172.05	12578	005 00:18:03	-67.06	8951	005 01:28:57	-38.74	2708
005 03:27:29	161.49	12579	005 02:02:56	-93.40	8952	005 03:13:53	-65.10	2709
005 05:12:50	135.02	12580	005 03:47:49	-119.75	8953	005 04:58:49	-91.46	2710
005 06:58:12	108.56	12581	005 05:32:41	-146.09	8954	005 06:43:45	-117.82	2711
005 08:43:33	82.09	12582	005 07:17:34	-172.44	8955	005 08:28:40	-144.18	2712
005 10:28:54	55.63	12583	005 09:02:27	161.22	8956	005 10:13:36	-170.54	2713
005 12:14:15	29.16	12584	005 10:47:20	134.87	8957	005 11:58:32	163.11	2714
005 13:59:37	2.70	12585	005 12:32:13	108.53	8958	005 13:43:28	136.75	2715
005 15:44:58	-23.76	12586	005 14:17:05	82.18	8959	005 15:28:24	110.39	2716
005 17:30:19	-50.23	12587	005 16:01:58	55.83	8960	005 17:13:20	84.03	2717
005 19:15:40	-76.69	12588	005 17:46:51	29.49	8961	005 18:58:16	57.67	2718
005 21:01:02	-103.16	12589	005 19:31:44	3.15	8962	005 20:43:12	31.32	2719
005 22:46:23	-129.62	12590	005 21:16:36	-23.20	8963	005 22:28:07	4.96	2720
			005 23:01:29	-49.55	8964			
006 00:31:44	-156.09	12591	006 00:46:22	-75.89	8965	006 00:13:03	-21.40	2721
006 02:17:06	177.45	12592	006 02:31:15	-102.24	8966	006 01:57:59	-47.76	2722
006 04:02:27	150.99	12593	006 04:16:07	-128.58	8967	006 03:42:55	-74.12	2723
006 05:47:48	124.52	12594	006 06:01:00	-154.93	8968	006 05:27:51	-100.48	2724
006 07:33:09	98.06	12595	006 07:45:53	178.73	8969	006 07:12:47	-126.83	2725
006 09:18:31	71.59	12596	006 09:30:46	152.38	8970	006 08:57:43	-153.19	2726
006 11:03:52	45.13	12597	006 11:15:39	126.04	8971	006 10:42:38	-179.55	2727
006 12:49:13	18.66	12598	006 13:00:31	99.69	8972	006 12:27:34	154.09	2728
006 14:34:34	-7.80	12599	006 14:45:24	73.34	8973	006 14:12:30	127.73	2729
006 16:19:56	-34.26	12600	006 16:30:17	47.00	8974	006 15:57:26	101.37	2730
006 18:05:17	-60.73	12601	006 18:15:10	20.65	8975	006 17:42:22	75.02	2731
006 19:50:38	-87.19	12602	006 20:00:02	-5.69	8976	006 19:27:18	48.66	2732
006 21:36:00	-113.66	12603	006 21:44:55	-32.04	8977	006 21:12:14	22.30	2733
006 23:21:21	-140.12	12604	006 23:29:48	-58.38	8978	006 22:57:09	-4.06	2734
007 01:06:42	-166.59	12605	007 01:14:41	-84.73	8979	007 00:42:05	-30.42	2735
007 02:52:03	166.95	12606	007 02:59:34	-111.07	8980	007 02:27:01	-56.78	2736
007 04:37:25	140.49	12607	007 04:44:26	-137.42	8981	007 04:11:57	-83.13	2737
007 06:22:46	114.02	12608	007 06:29:19	-163.77	8982	007 05:56:53	-109.49	2738
007 08:08:07	87.56	12609	007 08:14:12	169.89	8983	007 07:41:49	-135.85	2739
007 09:53:28	61.09	12610	007 09:59:05	143.54	8984	007 09:26:45	-162.21	2740
007 11:38:50	34.63	12611	007 11:43:57	117.20	8985	007 11:11:40	171.43	2741
007 13:24:11	8.16	12612	007 13:28:50	90.85	8986	007 12:56:36	145.07	2742
007 15:09:32	-18.30	12613	007 15:13:43	64.51	8987	007 14:41:32	118.72	2743
007 16:54:53	-44.77	12614	007 16:58:36	38.16	8988	007 16:26:28	92.36	2744
007 18:40:15	-71.23	12615	007 18:43:29	11.82	8989	007 18:11:24	66.00	2745
007 20:25:36	-97.70	12616	007 20:28:21	-14.53	8990	007 19:56:20	39.64	2746
007 22:10:57	-124.16	12617	007 22:13:14	-40.88	8991	007 21:41:16	13.28	2747
007 23:56:19	-150.62	12618	007 23:58:07	-67.22	8992	007 23:26:12	-13.07	2748
008 01:41:40	-177.09	12619	008 01:43:00	-93.57	8993	008 01:11:07	-39.43	2749
008 03:27:01	156.45	12620	008 03:27:52	-119.91	8994	008 02:56:03	-65.79	2750
008 05:12:22	129.98	12621	008 05:12:45	-146.26	8995	008 04:40:59	-92.15	2751
008 06:57:44	103.52	12622	008 06:57:38	-172.60	8996	008 06:25:55	-118.51	2752
008 08:43:05	77.05	12623	008 08:42:31	161.05	8997	008 08:10:51	-144.87	2753
008 10:28:26	50.59	12624	008 10:27:24	134.71	8998	008 09:55:47	-171.22	2754
008 12:13:47	24.12	12625	008 12:12:16	108.36	8999	008 11:40:43	162.42	2755
008 13:59:09	-2.34	12626	008 13:57:09	82.01	9000	008 13:25:38	136.06	2756
008 15:44:30	-28.80	12627	008 15:42:02	55.67	9001	008 15:10:34	109.70	2757
008 17:29:51	-55.27	12628	008 17:26:55	29.32	9002	008 16:55:30	83.34	2758
008 19:15:13	-81.73	12629	008 19:11:47	2.98	9003	008 18:40:26	56.98	2759
008 21:00:34	-108.20	12630	008 20:56:40	-23.37	9004	008 20:25:22	30.63	2760
008 22:45:55	-134.66	12631	008 22:41:33	-49.71	9005	008 22:10:18	4.27	2761
						008 23:55:14	-22.09	2762

West longitude is negative (—)

ORIGINAL PAGE IS
OF POOR QUALITY

Satellite 1			Satellite 2			Satellite 3		
TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg.dg		day hr mn sc	deg.dg		day hr mn sc	deg.dg	
009 00:31:16	-161.13	12632	009 00:26:26	-76.06	9006	009 01:40:09	-48.45	2763
009 02:16:38	172.41	12633	009 02:11:19	-102.40	9007	009 03:25:05	-74.81	2764
009 04:01:59	145.95	12634	009 03:56:11	-128.75	9008	009 05:10:01	-101.17	2765
009 05:47:20	119.48	12635	009 05:41:04	-155.10	9009	009 06:54:57	-127.52	2766
009 07:32:41	93.02	12636	009 07:25:57	178.56	9010	009 08:39:53	-153.88	2767
009 09:18:03	66.55	12637	009 09:10:50	152.21	9011	009 10:24:49	179.76	2768
009 11:03:24	40.09	12638	009 10:55:42	125.87	9012	009 12:09:45	153.40	2769
009 12:48:45	13.62	12639	009 12:40:35	99.52	9013	009 13:54:40	127.04	2770
009 14:34:07	-12.84	12640	009 14:25:28	73.18	9014	009 15:39:36	100.68	2771
009 16:19:28	-39.30	12641	009 16:10:21	46.83	9015	009 17:24:32	74.33	2772
009 18:04:49	-65.77	12642	009 17:55:14	20.49	9016	009 19:09:28	47.97	2773
009 19:50:10	-92.23	12643	009 19:40:06	-5.86	9017	009 20:54:24	21.61	2774
009 21:35:32	-118.70	12644	009 21:24:59	-32.21	9018	009 22:39:20	-4.75	2775
009 23:20:53	-145.16	12645	009 23:09:52	-58.55	9019			
010 01:06:14	-171.63	12646	010 00:54:45	-84.89	9020	010 00:24:16	-31.10	2776
010 02:51:35	161.91	12647	010 02:39:37	-111.24	9021	010 02:09:11	-57.47	2777
010 04:36:57	135.45	12648	010 04:24:30	-137.59	9022	010 03:54:07	-83.82	2778
010 06:22:18	108.98	12649	010 06:09:23	-163.93	9023	010 05:39:03	-110.18	2779
010 08:07:39	82.52	12650	010 07:54:16	169.72	9024	010 07:23:59	-136.54	2780
010 09:53:01	56.05	12651	010 09:39:09	143.38	9025	010 09:08:55	-162.90	2781
010 11:38:22	29.59	12652	010 11:24:01	117.03	9026	010 10:53:51	170.75	2782
010 13:23:43	3.12	12653	010 13:08:54	90.69	9027	010 12:38:47	144.39	2783
010 15:09:04	-23.34	12654	010 14:53:47	64.34	9028	010 14:23:42	118.03	2784
010 16:54:26	-49.80	12655	010 16:38:40	38.00	9029	010 16:08:38	91.67	2785
010 18:39:47	-76.27	12656	010 18:23:32	11.65	9030	010 17:53:34	65.31	2786
010 20:25:08	-102.73	12657	010 20:08:25	-14.70	9031	010 19:38:30	38.95	2787
010 22:10:29	-129.20	12658	010 21:53:18	-41.04	9032	010 21:23:26	12.60	2788
010 23:55:51	-155.66	12659	010 23:38:11	-67.39	9033	010 23:08:22	-13.76	2789
011 01:41:12	177.87	12660	011 01:23:04	-93.73	9034	011 00:53:18	-40.12	2790
011 03:26:33	151.41	12661	011 03:07:56	-120.08	9035	011 02:38:13	-66.48	2791
011 05:11:55	124.95	12662	011 04:52:49	-146.42	9036	011 04:23:09	-92.84	2792
011 06:57:16	98.48	12663	011 06:37:42	-172.77	9037	011 06:08:05	-119.20	2793
011 08:42:37	72.02	12664	011 08:22:35	160.89	9038	011 07:53:01	-145.55	2794
011 10:27:58	45.55	12665	011 10:07:28	134.54	9039	011 09:37:57	-171.91	2795
011 12:13:20	19.09	12666	011 11:52:20	108.19	9040	011 11:22:53	161.73	2796
011 13:58:41	-7.38	12667	011 13:37:13	81.85	9041	011 13:07:49	135.37	2797
011 15:44:02	-33.84	12668	011 15:22:06	55.50	9042	011 14:52:44	109.01	2798
011 17:29:23	-60.31	12669	011 17:06:59	29.16	9043	011 16:37:40	82.65	2799
011 19:14:45	-86.77	12670	011 18:51:51	2.81	9044	011 18:22:36	56.30	2800
011 21:00:06	-113.23	12671	011 20:36:44	-23.53	9045	011 20:07:32	29.94	2801
011 22:45:27	-139.70	12672	011 22:21:37	-49.88	9046	011 21:52:28	3.58	2802
						011 23:37:24	-22.78	2803
012 00:30:49	-166.16	12673	012 00:06:30	-76.22	9047	012 01:22:20	-49.13	2804
012 02:16:10	167.37	12674	012 01:51:23	-102.57	9048	012 03:07:15	-75.50	2805
012 04:01:31	140.91	12675	012 03:36:15	-128.92	9049	012 04:52:11	-101.85	2806
012 05:46:52	114.44	12676	012 05:21:08	-155.26	9050	012 06:37:07	-128.21	2807
012 07:32:14	87.98	12677	012 07:06:01	178.39	9051	012 08:22:03	-154.57	2808
012 09:17:35	61.52	12678	012 08:50:54	152.05	9052	012 10:06:59	179.07	2809
012 11:02:56	35.05	12679	012 10:35:46	125.70	9053	012 11:51:55	152.72	2810
012 12:48:17	8.58	12680	012 12:20:39	99.36	9054	012 13:36:51	126.36	2811
012 14:33:39	-17.88	12681	012 14:05:32	73.01	9055	012 15:21:46	100.00	2812
012 16:19:00	-44.34	12682	012 15:50:25	46.67	9056	012 17:06:42	73.64	2813
012 18:04:21	-70.81	12683	012 17:35:18	20.32	9057	012 18:51:38	47.28	2814
012 19:49:43	-97.27	12684	012 19:20:10	-6.03	9058	012 20:36:34	20.92	2815
012 21:35:04	-123.74	12685	012 21:05:03	-32.37	9059	012 22:21:30	-5.43	2816
012 23:20:25	-150.20	12686	012 22:49:56	-58.72	9060			

West longitude is negative (-)

Satellite 1

Satellite 2

Satellite 3

TIME (GMT) E. LONG. ORBIT
day hr mn sc deg.dg

013 01:05:46 -176.67 12687
013 02:51:08 156.87 12688
013 04:36:29 130.41 12689
013 06:21:50 103.94 12690
013 08:07:11 77.48 12691
013 09:52:33 51.01 12692
013 11:37:54 24.55 12693
013 13:23:15 -1.92 12694
013 15:08:37 -28.38 12695
013 16:53:58 -54.84 12696
013 18:39:19 -81.31 12697
013 20:24:40 -107.77 12698
013 22:10:02 -134.24 12699
013 23:55:23 -160.70 12700

014 01:40:44 172.83 12701
014 03:26:05 146.37 12702
014 05:11:27 119.91 12703
014 06:56:48 93.44 12704
014 08:42:09 66.98 12705
014 10:27:31 40.51 12706
014 12:12:52 14.05 12707
014 13:58:13 -12.42 12708
014 15:43:34 -38.88 12709
014 17:28:56 -65.34 12710
014 19:14:17 -91.81 12711
014 20:59:38 -118.27 12712
014 22:45:00 -144.74 12713

015 00:30:21 -171.20 12714
015 02:15:42 162.33 12715
015 04:01:03 135.87 12716
015 05:46:25 109.41 12717
015 07:31:46 82.94 12718
015 09:17:07 56.48 12719
015 11:02:28 30.01 12720
015 12:47:50 3.55 12721
015 14:33:11 -22.92 12722
015 16:18:32 -49.38 12723
015 18:03:54 -75.84 12724
015 19:49:15 -102.31 12725
015 21:34:36 -128.77 12726
015 23:19:57 -155.24 12727

016 01:05:19 178.30 12728
016 02:50:40 151.83 12729
016 04:36:01 125.37 12730
016 06:21:22 98.90 12731
016 08:06:44 72.44 12732
016 09:52:05 45.97 12733
016 11:37:26 19.51 12734
016 13:22:48 -6.95 12735
016 15:08:09 -33.42 12736
016 16:53:30 -59.88 12737
016 18:38:51 -86.35 12738
016 20:24:13 -112.81 12739
016 22:09:34 -139.28 12740
016 23:54:55 -165.74 12741

TIME (GMT) E. LONG. ORBIT
day hr mn sc deg.dg

013 00:34:49 -85.06 9061
013 02:19:42 -111.41 9062
013 04:04:34 -137.75 9063
013 05:49:27 -164.10 9064
013 07:34:20 -169.56 9065
013 09:19:13 -143.21 9066
013 11:04:05 -116.86 9067
013 12:48:58 -90.52 9068
013 14:33:51 -64.17 9069
013 16:18:44 -37.83 9070
013 18:03:37 -11.48 9071
013 19:48:29 -14.86 9072
013 21:33:22 -41.21 9073
013 23:18:15 -67.55 9074

014 01:03:08 -93.90 9075
014 02:48:00 -120.25 9076
014 04:32:53 -146.59 9077
014 06:17:46 -172.94 9078
014 08:02:39 -160.72 9079
014 09:47:32 -134.37 9080
014 11:32:24 -108.03 9081
014 13:17:17 -81.68 9082
014 15:02:10 -55.34 9083
014 16:47:03 -28.99 9084
014 18:31:56 -2.65 9085
014 20:16:48 -23.70 9086
014 22:01:41 -50.05 9087
014 23:46:34 -76.39 9088

015 01:31:27 -102.74 9089
015 03:16:19 -129.08 9090
015 05:01:12 -155.43 9091
015 06:46:05 -178.23 9092
015 08:30:58 -151.88 9093
015 10:15:51 -125.54 9094
015 12:00:43 -99.19 9095
015 13:45:36 -72.84 9096
015 15:30:29 -46.50 9097
015 17:15:22 -20.15 9098
015 19:00:15 -6.19 9099
015 20:45:07 -32.54 9100
015 22:30:00 -58.88 9101

016 00:14:53 -85.23 9102
016 01:59:46 -111.57 9103
016 03:44:38 -137.92 9104
016 05:29:31 -164.27 9105
016 07:14:24 -169.39 9106
016 08:59:17 -143.04 9107
016 10:44:10 -116.70 9108
016 12:29:02 -90.35 9109
016 14:13:55 -64.01 9110
016 15:58:48 -37.66 9111
016 17:43:41 -11.32 9112
016 19:28:34 -15.03 9113
016 21:13:26 -41.38 9114
016 22:58:19 -67.72 9115

TIME (GMT) E. LONG. ORBIT
day hr mn sc deg.dg

013 00:06:26 -31.79 2817
013 01:51:22 -58.15 2818
013 03:36:17 -84.51 2819
013 05:21:13 -110.87 2820
013 07:06:09 -137.23 2821
013 08:51:05 -163.58 2822
013 10:36:01 -170.06 2823
013 12:20:57 -143.70 2824
013 14:05:53 -117.34 2825
013 15:50:48 -90.98 2826
013 17:35:44 -64.62 2827
013 19:20:40 -38.27 2828
013 21:05:36 -11.91 2829
013 22:50:32 -14.45 2830

014 00:35:28 -40.81 2831
014 02:20:24 -67.17 2832
014 04:05:19 -93.53 2833
014 05:50:15 -119.88 2834
014 07:35:11 -146.24 2835
014 09:20:07 -172.60 2836
014 11:05:03 -161.04 2837
014 12:49:59 -134.69 2838
014 14:34:55 -108.33 2839
014 16:19:50 -81.97 2840
014 18:04:46 -55.61 2841
014 19:49:42 -29.25 2842
014 21:34:38 -2.89 2843
014 23:19:34 -23.46 2844

015 01:04:30 -49.82 2845
015 02:49:25 -76.18 2846
015 04:34:21 -102.54 2847
015 06:19:17 -128.90 2848
015 08:04:13 -155.26 2849
015 09:49:09 -178.39 2850
015 11:34:05 -152.03 2851
015 13:19:01 -125.67 2852
015 15:03:56 -99.31 2853
015 16:48:52 -72.95 2854
015 18:33:48 -46.59 2855
015 20:18:44 -20.24 2856
015 22:03:40 -6.12 2857
015 23:48:36 -32.48 2858

016 01:33:32 -58.84 2859
016 03:18:27 -85.20 2860
016 05:03:23 -111.56 2861
016 06:48:19 -137.91 2862
016 08:33:15 -164.27 2863
016 10:18:11 -169.37 2864
016 12:03:07 -143.01 2865
016 13:48:03 -116.66 2866
016 15:32:58 -90.29 2867
016 17:17:54 -63.94 2868
016 19:02:50 -37.58 2869
016 20:47:46 -11.22 2870
016 22:32:42 -15.14 2871

West longitude is negative (—)

Satellite 1			Satellite 2			Satellite 3		
TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg.dg		day hr mn sc	deg.dg		day hr mn sc	deg.dg	
017 01:40:16	167.79	12742	017 00:43:12	-94.07	9116	017 00:17:38	-41.49	2872
017 03:25:38	141.33	12743	017 02:28:05	-120.41	9117	017 02:02:33	-67.85	2873
017 05:10:59	114.87	12744	017 04:12:58	-146.76	9118	017 03:47:29	-94.21	2874
017 06:56:20	88.40	12745	017 05:57:50	-173.11	9119	017 05:32:25	-120.57	2875
017 08:41:42	61.94	12746	017 07:42:43	-160.55	9120	017 07:17:21	-146.93	2876
017 10:27:03	35.47	12747	017 09:27:36	-134.20	9121	017 09:02:17	-173.29	2877
017 12:12:24	9.01	12748	017 11:12:29	-107.86	9122	017 10:47:13	-160.36	2878
017 13:57:45	-17.46	12749	017 12:57:21	-81.51	9123	017 12:32:09	-134.00	2879
017 15:43:07	-43.92	12750	017 14:42:14	-55.17	9124	017 14:17:04	-107.64	2880
017 17:28:28	-70.38	12751	017 16:27:07	-28.82	9125	017 16:02:00	-81.28	2881
017 19:13:49	-96.85	12752	017 18:12:00	-2.48	9126	017 17:46:56	-54.92	2882
017 20:59:11	-123.31	12753	017 19:56:53	-23.87	9127	017 19:31:52	-28.56	2883
017 22:44:32	-149.78	12754	017 21:41:45	-50.22	9128	017 21:16:48	-2.21	2884
			017 23:26:38	-76.56	9129	017 23:01:44	-24.15	2885
018 00:29:53	-176.24	12755	018 01:11:31	-102.91	9130	018 00:46:40	-50.51	2886
018 02:15:14	-157.29	12756	018 02:56:24	-129.25	9131	018 02:31:35	-76.87	2887
018 04:00:36	-130.83	12757	018 04:41:17	-155.60	9132	018 04:16:31	-103.23	2888
018 05:45:57	-104.37	12758	018 06:26:09	-178.06	9133	018 06:01:27	-129.59	2889
018 07:31:18	-77.90	12759	018 08:11:02	-151.71	9134	018 07:46:23	-155.94	2890
018 09:16:39	-51.44	12760	018 09:55:55	-125.37	9135	018 09:31:19	-177.70	2891
018 11:02:01	-24.97	12761	018 11:40:48	-99.02	9136	018 11:16:15	-151.34	2892
018 12:47:22	-1.49	12762	018 13:25:41	-72.68	9137	018 13:01:11	-124.98	2893
018 14:32:43	-27.96	12763	018 15:10:33	-46.33	9138	018 14:46:06	-98.62	2894
018 16:18:05	-54.42	12764	018 16:55:26	-19.98	9139	018 16:31:02	-72.27	2895
018 18:03:26	-80.88	12765	018 18:40:19	-6.36	9140	018 18:15:58	-45.91	2896
018 19:48:47	-107.35	12766	018 20:25:12	-32.71	9141	018 20:00:54	-19.55	2897
018 21:34:08	-133.82	12767	018 22:10:04	-59.05	9142	018 21:45:50	-6.81	2898
018 23:19:30	-160.28	12768	018 23:54:57	-85.46	9143	018 23:30:46	-33.17	2899
019 01:04:51	-173.26	12769	019 01:39:50	-111.74	9144	019 01:15:41	-59.53	2900
019 02:50:12	-146.79	12770	019 03:24:43	-138.09	9145	019 03:00:37	-85.88	2901
019 04:35:33	-120.33	12771	019 05:09:36	-164.43	9146	019 04:45:33	-112.24	2902
019 06:20:55	-93.86	12772	019 06:54:28	-169.22	9147	019 06:30:29	-138.60	2903
019 08:06:16	-67.40	12773	019 08:39:21	-142.87	9148	019 08:15:25	-164.96	2904
019 09:51:37	-40.93	12774	019 10:24:14	-116.53	9149	019 10:00:21	-168.68	2905
019 11:36:59	-14.47	12775	019 12:09:07	-90.18	9150	019 11:45:17	-142.33	2906
019 13:22:20	-11.99	12776	019 13:54:00	-63.84	9151	019 13:30:12	-115.97	2907
019 15:07:41	-38.46	12777	019 15:38:52	-37.49	9152	019 15:15:08	-89.61	2908
019 16:53:02	-64.92	12778	019 17:23:45	-11.15	9153	019 17:00:04	-63.25	2909
019 18:38:24	-91.39	12779	019 19:08:38	-15.20	9154	019 18:45:00	-36.89	2910
019 20:23:45	-117.85	12780	019 20:53:31	-41.54	9155	019 20:29:56	-10.54	2911
019 22:09:06	-144.32	12781	019 22:38:24	-67.89	9156	019 22:14:52	-15.82	2912
019 23:54:28	-170.78	12782				019 23:59:47	-42.18	2913
020 01:39:49	-162.76	12783	020 00:23:16	-94.24	9157	020 01:44:43	-68.54	2914
020 03:25:10	-136.29	12784	020 02:08:09	-120.58	9158	020 03:29:39	-94.90	2915
020 05:10:31	-109.83	12785	020 03:53:02	-146.93	9159	020 05:14:35	-121.26	2916
020 06:55:53	-83.36	12786	020 05:37:55	-173.27	9160	020 06:59:31	-147.61	2917
020 08:41:14	-56.90	12787	020 07:22:47	-160.38	9161	020 08:44:27	-173.97	2918
020 10:26:35	-30.43	12788	020 09:07:40	-134.04	9162	020 10:29:23	-159.67	2919
020 12:11:56	-3.97	12789	020 10:52:33	-107.69	9163	020 12:14:18	-133.31	2920
020 13:57:18	-22.49	12790	020 12:37:26	-81.35	9164	020 13:59:14	-106.95	2921
020 15:42:39	-48.96	12791	020 14:22:19	-55.00	9165	020 15:44:10	-80.59	2922
020 17:28:00	-75.42	12792	020 16:07:11	-28.65	9166	020 17:29:06	-54.24	2923
020 19:13:22	-101.89	12793	020 17:52:04	-2.31	9167	020 19:14:02	-27.88	2924
020 20:58:43	-128.35	12794	020 19:36:57	-24.04	9168	020 20:58:58	-1.52	2925
020 22:44:04	-154.82	12795	020 21:21:50	-50.38	9169	020 22:43:54	-24.84	2926
			020 23:06:43	-76.73	9170			

West longitude is negative (—)

Satellite 1			Satellite 2			Satellite 3		
TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg.dg		day hr mn sc	deg.dg		day hr mn sc	deg.dg	
021 00:29:25	178.72	12796	021 00:51:35	-103.08	9171	021 00:28:49	-51.20	2927
021 02:14:47	152.26	12797	021 02:36:28	-129.42	9172	021 02:13:45	-77.56	2928
021 04:00:08	125.79	12798	021 04:21:21	-155.77	9173	021 03:58:41	-103.91	2929
021 05:45:29	99.33	12799	021 06:06:14	177.89	9174	021 05:43:37	-130.27	2930
021 07:30:51	72.86	12800	021 07:51:07	151.54	9175	021 07:28:33	-156.63	2931
021 09:16:12	46.40	12801	021 09:35:59	125.20	9176	021 09:13:29	177.01	2932
021 11:01:33	19.93	12802	021 11:20:52	98.95	9177	021 10:58:24	150.65	2933
021 12:46:54	-6.53	12803	021 13:05:45	72.51	9178	021 12:43:20	124.30	2934
021 14:32:16	-32.99	12804	021 14:50:38	46.16	9179	021 14:28:16	97.94	2935
021 16:17:37	-59.46	12805	021 16:35:31	19.82	9180	021 16:13:12	71.58	2936
021 18:02:58	-85.93	12806	021 18:20:23	-6.53	9181	021 17:58:08	45.22	2937
021 19:48:19	-112.39	12807	021 20:05:16	-32.88	9182	021 19:43:04	18.86	2938
021 21:33:41	-138.85	12808	021 21:50:09	-59.22	9183	021 21:28:00	-7.49	2939
021 23:19:02	-165.32	12809	021 23:35:02	-85.57	9184	021 23:12:55	-33.85	2940
022 01:04:23	168.22	12810	022 01:19:55	-111.91	9185	022 00:57:51	-60.21	2941
022 02:49:45	141.75	12811	022 03:04:47	-138.26	9186	022 02:42:47	-86.57	2942
022 04:35:06	115.29	12812	022 04:49:40	-164.60	9187	022 04:27:43	-112.93	2943
022 06:20:27	88.82	12813	022 06:34:33	169.05	9188	022 06:12:39	-139.29	2944
022 08:05:48	62.36	12814	022 08:19:26	142.71	9189	022 07:57:35	-165.64	2945
022 09:51:10	35.90	12815	022 10:04:18	116.36	9190	022 09:42:30	168.00	2946
022 11:36:31	9.43	12816	022 11:49:11	90.01	9191	022 11:27:26	141.64	2947
022 13:21:52	-17.03	12817	022 13:34:04	63.67	9192	022 13:12:22	115.28	2948
022 15:07:14	-43.50	12818	022 15:18:57	37.32	9193	022 14:57:18	88.92	2949
022 16:52:35	-69.96	12819	022 17:03:50	10.98	9194	022 16:42:14	62.57	2950
022 18:37:56	-96.43	12820	022 18:48:42	-15.37	9195	022 18:27:10	36.21	2951
022 20:23:17	-122.89	12821	022 20:33:35	-41.71	9196	022 20:12:06	9.85	2952
022 22:08:39	-149.35	12822	022 22:18:28	-68.06	9197	022 21:57:01	-16.51	2953
022 23:54:00	-175.82	12823				022 23:41:57	-42.87	2954
023 01:39:21	157.72	12824	023 00:03:21	-94.40	9198	023 01:26:53	-69.23	2955
023 03:24:42	131.25	12825	023 01:48:14	-120.75	9199	023 03:11:49	-95.58	2956
023 05:10:04	104.79	12826	023 03:33:06	-147.10	9200	023 04:56:45	-121.94	2957
023 06:55:25	78.32	12827	023 05:17:59	-173.44	9201	023 06:41:41	-148.30	2958
023 08:40:46	51.86	12828	023 07:02:52	160.21	9202	023 08:26:36	-174.66	2959
023 10:26:08	25.40	12829	023 08:47:45	133.87	9203	023 10:11:32	158.98	2960
023 12:11:29	-1.07	12830	023 10:32:38	107.52	9204	023 11:56:28	132.62	2961
023 13:56:50	-27.53	12831	023 12:17:30	81.17	9205	023 13:41:24	106.27	2962
023 15:42:11	-54.00	12832	023 14:02:23	54.83	9206	023 15:26:20	79.91	2963
023 17:27:33	-80.46	12833	023 15:47:16	28.48	9207	023 17:11:16	53.55	2964
023 19:12:54	-106.93	12834	023 17:32:09	2.14	9208	023 18:56:12	27.19	2965
023 20:58:15	-133.39	12835	023 19:17:02	-24.21	9209	023 20:41:07	83	2966
023 22:43:36	-159.86	12836	023 21:01:54	-50.55	9210	023 22:26:03	-25.53	2967
			023 22:46:47	-76.90	9211			
024 00:28:58	173.68	12837	024 00:31:40	-103.24	9212	024 00:10:59	-51.88	2968
024 02:14:19	147.22	12838	024 02:16:33	-129.59	9213	024 01:55:55	-78.24	2969
024 03:59:40	120.75	12839	024 04:01:26	-155.93	9214	024 03:40:51	-104.60	2970
024 05:45:02	94.29	12840	024 05:46:18	177.72	9215	024 05:25:47	-130.96	2971
024 07:30:23	67.82	12841	024 07:31:11	151.37	9216	024 07:10:42	-157.32	2972
024 09:15:44	41.36	12842	024 09:16:04	125.03	9217	024 08:55:38	176.33	2973
024 11:01:05	14.89	12843	024 11:00:57	98.68	9218	024 10:40:34	149.97	2974
024 12:46:27	-11.57	12844	024 12:45:50	72.34	9219	024 12:25:30	123.61	2975
024 14:31:48	-38.04	12845	024 14:30:42	45.99	9220	024 14:10:26	97.25	2976
024 16:17:09	-64.50	12846	024 16:15:35	19.65	9221	024 15:55:22	70.89	2977
024 18:02:31	-90.96	12847	024 18:00:28	-6.70	9222	024 17:40:18	44.54	2978
024 19:47:52	-117.43	12848	024 19:45:21	-33.04	9223	024 19:25:13	18.18	2979
024 21:33:13	-143.89	12849	024 21:30:14	-59.39	9224	024 21:10:09	-8.18	2980
024 23:18:34	-170.36	12850	024 23:15:06	-85.74	9225	024 22:55:05	-34.54	2981

West longitude is negative (-)

Satellite 1			Satellite 2			Satellite 3		
TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg.dg		day hr mn sc	deg.dg		day hr mn sc	deg.dg	
025 01:03:56	163.18	12851	025 00:59:59	-112.08	9226	025 00:40:01	-60.90	2982
025 02:49:17	136.71	12852	025 02:44:52	-138.43	9227	025 02:24:57	-87.25	2983
025 04:34:38	110.25	12853	025 04:29:45	-164.77	9228	025 04:09:53	-113.61	2984
025 06:19:59	83.78	12854	025 06:14:38	-168.88	9229	025 05:54:48	-139.97	2985
025 08:05:21	57.32	12855	025 07:59:30	-142.54	9230	025 07:39:44	-166.33	2986
025 09:50:42	30.86	12856	025 09:44:23	-116.19	9231	025 09:24:40	-167.31	2987
025 11:36:03	4.39	12857	025 11:29:16	-89.85	9232	025 11:09:36	-140.95	2988
025 13:21:25	-22.07	12858	025 13:14:09	-63.50	9233	025 12:54:32	-114.60	2989
025 15:06:46	-48.54	12859	025 14:59:01	-37.15	9234	025 14:39:28	-98.24	2990
025 16:52:07	-75.00	12860	025 16:43:54	-10.91	9235	025 16:24:24	-61.88	2991
025 18:37:28	-101.47	12861	025 18:28:47	-15.54	9236	025 18:09:19	-35.52	2992
025 20:22:50	-127.93	12862	025 20:13:40	-41.88	9237	025 19:54:15	-9.16	2993
025 22:08:11	-154.39	12863	025 21:58:33	-68.23	9238	025 21:39:11	-17.20	2994
025 23:53:32	-179.14	12864	025 23:43:25	-94.58	9239	025 23:24:07	-43.55	2995
026 01:38:54	152.68	12865	026 01:28:18	-120.92	9240	026 01:09:03	-69.91	2996
026 03:24:15	126.21	12866	026 03:13:11	-147.27	9241	026 02:53:59	-96.27	2997
026 05:09:36	99.75	12867	026 04:58:04	-173.61	9242	026 04:38:54	-122.63	2998
026 06:54:57	73.28	12868	026 06:42:57	-160.04	9243	026 06:23:50	-148.99	2999
026 08:40:19	46.82	12869	026 08:27:49	-133.70	9244	026 08:08:46	-175.34	3000
026 10:25:40	20.36	12870	026 10:12:42	-107.35	9245	026 09:53:42	-158.30	3001
026 12:11:01	-6.11	12871	026 11:57:35	-81.01	9246	026 11:38:38	-131.94	3002
026 13:56:22	-32.57	12872	026 13:42:28	-54.66	9247	026 13:23:34	-105.58	3003
026 15:41:44	-59.04	12873	026 15:27:21	-28.32	9248	026 15:08:29	-79.22	3004
026 17:27:05	-85.50	12874	026 17:12:13	-1.97	9249	026 16:53:25	-52.86	3005
026 19:12:26	-111.97	12875	026 18:57:06	-24.38	9250	026 18:38:21	-26.51	3006
026 20:57:48	-138.43	12876	026 20:41:59	-50.72	9251	026 20:23:17	-1.15	3007
026 22:43:09	-164.90	12877	026 22:26:52	-77.07	9252	026 22:08:13	-26.21	3008
						026 23:53:09	-52.57	3009
027 00:28:30	168.64	12878	027 00:11:45	-103.41	9253	027 01:38:05	-78.92	3010
027 02:13:51	142.17	12879	027 01:56:37	-129.76	9254	027 03:23:00	-105.29	3011
027 03:59:13	115.71	12880	027 03:41:30	-156.10	9255	027 05:07:56	-131.64	3012
027 05:44:34	89.25	12881	027 05:26:23	-177.55	9256	027 06:52:52	-158.00	3013
027 07:29:55	62.78	12882	027 07:11:16	-151.21	9257	027 08:37:48	-175.64	3014
027 09:15:17	36.32	12883	027 08:56:09	-124.86	9258	027 10:22:44	-149.28	3015
027 11:00:38	9.85	12884	027 10:41:01	-98.51	9259	027 12:07:40	-122.93	3016
027 12:45:59	-16.61	12885	027 12:25:54	-72.17	9260	027 13:52:35	-96.57	3017
027 14:31:20	-43.08	12886	027 14:10:47	-45.82	9261	027 15:37:31	-70.21	3018
027 16:16:42	-69.54	12887	027 15:55:40	-19.48	9262	027 17:22:27	-43.85	3019
027 18:02:03	-96.00	12888	027 17:40:33	-6.87	9263	027 19:07:23	-17.49	3020
027 19:47:24	-122.47	12889	027 19:25:25	-33.22	9264	027 20:52:19	-8.87	3021
027 21:32:45	-148.93	12890	027 21:10:18	-59.56	9265	027 22:37:15	-35.22	3022
027 23:18:07	-175.40	12891	027 22:55:11	-85.91	9266			
028 01:03:28	158.14	12892	028 00:40:04	-112.25	9267	028 00:22:11	-61.58	3023
028 02:48:49	131.67	12893	028 02:24:57	-138.60	9268	028 02:07:06	-87.94	3024
028 04:34:11	105.21	12894	028 04:09:49	-164.94	9269	028 03:52:02	-114.30	3025
028 06:19:32	78.75	12895	028 05:54:42	-168.71	9270	028 05:36:58	-140.66	3026
028 08:04:53	52.28	12896	028 07:39:35	-142.37	9271	028 07:21:54	-167.01	3027
028 09:50:14	25.82	12897	028 09:24:28	-116.02	9272	028 09:06:50	-166.63	3028
028 11:35:36	-1.65	12898	028 11:09:21	-89.68	9273	028 10:51:46	-140.27	3029
028 13:20:57	-27.11	12899	028 12:54:13	-63.33	9274	028 12:36:41	-113.91	3030
028 15:06:18	-53.58	12900	028 14:39:06	-36.98	9275	028 14:21:37	-87.55	3031
028 16:51:40	-80.04	12901	028 16:23:59	-10.64	9276	028 16:06:33	-61.19	3032
028 18:37:01	-106.50	12902	028 18:08:52	-15.71	9277	028 17:51:29	-34.84	3033
028 20:22:22	-132.97	12903	028 19:53:45	-42.05	9278	028 19:36:25	-8.48	3034
028 22:07:43	-159.43	12904	028 21:38:37	-68.40	9279	028 21:21:21	-17.88	3035
028 23:53:05	-174.10	12905	028 23:23:30	-94.74	9280	028 23:06:16	-44.24	3036

West longitude is negative (—)

Satellite 1			Satellite 2			Satellite 3		
TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg.dg		day hr mn sc	deg.dg		day hr mn sc	deg.dg	
029 01:38:26	147.64	12906	029 01:08:23	-121.09	9281	029 00:51:12	-70.60	3037
029 03:23:47	121.17	12907	029 02:53:16	-147.43	9282	029 02:36:08	-96.96	3038
029 05:09:08	94.71	12908	029 04:38:09	-173.78	9283	029 04:21:04	-123.31	3039
029 06:54:30	68.25	12909	029 06:23:01	159.87	9284	029 06:06:00	-149.67	3040
029 08:39:51	41.78	12910	029 08:07:54	133.53	9285	029 07:50:56	-176.03	3041
029 10:25:12	15.31	12911	029 09:52:47	107.18	9286	029 09:35:52	157.61	3042
029 12:10:34	-11.15	12912	029 11:37:40	80.84	9287	029 11:20:47	131.25	3043
029 13:55:55	-37.61	12913	029 13:22:33	54.49	9288	029 13:05:43	104.90	3044
029 15:41:16	-64.08	12914	029 15:07:25	28.14	9289	029 14:50:39	78.54	3045
029 17:26:37	-90.54	12915	029 16:52:18	1.80	9290	029 16:35:35	52.18	3046
029 19:11:59	-117.01	12916	029 18:37:11	-24.55	9291	029 18:20:31	25.82	3047
029 20:57:20	-143.47	12917	029 20:22:04	-50.89	9292	029 20:05:27	-5.54	3048
029 22:42:41	-169.94	12918	029 22:08:57	-77.24	9293	029 21:50:22	-26.90	3049
			029 23:51:49	-103.58	9294	029 23:35:18	-53.25	3050
030 00:28:02	163.60	12919	030 01:36:42	-129.93	9295	030 01:20:14	-79.61	3051
030 02:13:24	137.14	12920	030 03:21:35	-156.27	9296	030 03:05:10	-105.97	3052
030 03:58:45	110.67	12921	030 05:06:28	177.38	9297	030 04:50:06	-132.33	3053
030 05:44:06	84.21	12922	030 06:51:21	151.04	9298	030 06:35:02	-158.68	3054
030 07:29:28	57.74	12923	030 08:36:13	124.69	9299	030 08:19:57	174.95	3055
030 09:14:49	31.28	12924	030 10:21:06	98.34	9300	030 10:04:53	148.60	3056
030 11:00:10	4.81	12925	030 12:05:59	72.00	9301	030 11:49:49	122.24	3057
030 12:45:31	-21.65	12926	030 13:50:52	45.65	9302	030 13:34:45	95.88	3058
030 14:30:53	-48.11	12927	030 15:35:45	19.31	9303	030 15:19:41	69.52	3059
030 16:16:14	-74.58	12928	030 17:20:37	-7.04	9304	030 17:04:37	43.17	3060
030 18:01:35	-101.04	12929	030 19:05:30	-33.38	9305	030 18:49:33	16.81	3061
030 19:46:57	-127.51	12930	030 20:50:23	-59.73	9306	030 20:34:28	-9.55	3062
030 21:32:18	-153.97	12931	030 22:35:16	-86.07	9307	030 22:19:24	-35.91	3063
030 23:17:39	179.56	12932						
031 01:03:00	153.16	12933	031 00:20:09	-112.42	9308	031 00:04:20	-62.27	3064
031 02:48:22	126.64	12934	031 02:05:01	-138.77	9309	031 01:49:16	-88.63	3065
031 04:33:43	100.17	12935	031 03:49:54	-165.11	9310	031 03:34:12	-114.98	3066
031 06:19:04	73.71	12936	031 05:34:47	168.54	9311	031 05:19:08	-141.34	3067
031 08:04:25	47.24	12937	031 07:19:40	142.20	9312	031 07:04:03	-167.70	3068
031 09:49:47	20.78	12938	031 09:04:33	115.85	9313	031 08:48:59	165.94	3069
031 11:35:08	-5.69	12939	031 10:49:25	89.50	9314	031 10:33:55	139.58	3070
031 13:20:29	-32.15	12940	031 12:34:18	63.16	9315	031 12:18:51	113.23	3071
031 15:05:51	-58.51	12941	031 14:19:11	36.81	9316	031 14:03:47	86.87	3072
031 16:51:12	-85.08	12942	031 16:04:04	10.47	9317	031 15:48:43	60.51	3073
031 18:36:33	-111.54	12943	031 17:48:57	-15.88	9318	031 17:33:38	34.15	3074
031 20:21:54	-138.01	12944	031 19:33:49	-42.22	9319	031 19:18:34	7.79	3075
031 22:07:16	-164.47	12945	031 21:18:42	-68.57	9320	031 21:03:30	-18.57	3076
031 23:52:37	169.06	12946	031 23:03:35	-94.91	9321	031 22:48:26	-44.92	3077
032 01:37:58	142.60	12947	032 00:48:28	-121.26	9322	032 00:33:22	-71.28	3078
032 03:23:20	116.14	12948	032 02:33:21	-147.60	9323	032 02:18:18	-97.64	3079
032 05:08:41	89.67	12949	032 04:18:13	-173.95	9324	032 04:03:14	-124.00	3080
032 06:54:02	63.20	12950	032 06:03:06	159.70	9325	032 05:48:09	-150.36	3081
032 08:39:23	36.74	12951	032 07:47:59	133.36	9326	032 07:33:05	-176.72	3082
032 10:24:45	10.28	12952	032 09:32:52	107.01	9327	032 09:18:01	156.93	3083
032 12:10:06	-16.19	12953	032 11:17:45	80.67	9328	032 11:02:57	130.57	3084
032 13:55:27	-42.65	12954	032 13:02:37	54.32	9329	032 12:47:53	104.21	3085
032 15:40:48	-69.12	12955	032 14:47:30	27.98	9330	032 14:32:49	77.85	3086
032 17:26:10	-95.58	12956	032 16:32:23	1.63	9331	032 16:17:44	51.49	3087
032 19:11:31	-122.05	12957	032 18:17:16	-24.71	9332	032 18:02:40	25.14	3088
032 20:56:52	-148.51	12958	032 20:02:09	-51.06	9333	032 19:47:36	-1.22	3089
032 22:42:14	-174.97	12959	032 21:47:01	-77.41	9334	032 21:32:32	-27.58	3090
			032 23:31:54	-103.75	9335	032 23:17:28	-53.94	3091

West longitude is negative (-)

ORIGINAL PAGE IS
OF POOR QUALITY

Satellite 1			Satellite 2			Satellite 3		
TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg. dg		day hr mn sc	deg. dg		day hr mn sc	deg. dg	
033 00:27:35	158.56	12960	033 01:16:47	-130.10	9336	033 01:02:24	-80.30	3092
033 02:12:56	132.10	12961	033 03:01:40	-156.44	9337	033 02:47:19	-106.66	3093
033 03:58:17	105.63	12962	033 04:46:33	177.21	9338	033 04:32:15	-133.01	3094
033 05:43:39	79.17	12963	033 06:31:25	150.86	9339	033 06:17:11	-159.37	3095
033 07:29:00	52.70	12964	033 08:16:18	124.52	9340	033 08:02:07	174.27	3096
033 09:14:21	26.24	12965	033 10:01:11	98.17	9341	033 09:47:03	147.91	3097
033 10:59:42	-23	12966	033 11:46:04	71.83	9342	033 11:31:59	121.56	3098
033 12:45:04	-26.69	12967	033 13:30:57	45.48	9343	033 13:16:54	95.19	3099
033 14:30:25	-53.15	12968	033 15:15:49	19.14	9344	033 15:01:50	68.84	3100
033 16:15:46	-79.62	12969	033 17:00:42	-7.21	9345	033 16:46:46	42.48	3101
033 18:01:08	-106.08	12970	033 18:45:35	-33.55	9346	033 18:31:42	16.12	3102
033 19:46:29	-132.55	12971	033 20:30:28	-59.90	9347	033 20:16:38	-10.24	3103
033 21:31:50	-159.01	12972	033 22:15:21	-86.24	9348	033 22:01:34	-36.59	3104
033 23:17:11	174.52	12973				033 23:46:30	-62.95	3105
034 01:02:33	148.06	12974	034 00:00:13	-112.59	9349	034 01:31:25	-89.31	3106
034 02:47:54	121.60	12975	034 01:45:06	-138.94	9350	034 03:16:21	-115.67	3107
034 04:33:15	95.13	12976	034 03:29:59	-165.28	9351	034 05:01:17	-142.03	3108
034 06:18:37	68.67	12977	034 05:14:52	168.37	9352	034 06:46:13	-168.38	3109
034 08:03:58	42.20	12978	034 06:59:45	142.03	9353	034 08:31:09	165.26	3110
034 09:49:19	15.74	12979	034 08:44:37	115.68	9354	034 10:16:05	138.90	3111
034 11:34:40	-10.73	12980	034 10:29:30	89.33	9355	034 12:01:00	112.54	3112
034 13:20:02	-37.19	12981	034 12:14:23	62.99	9356	034 13:45:56	86.18	3113
034 15:05:23	-63.65	12982	034 13:59:16	36.64	9357	034 15:30:52	59.82	3114
034 16:50:44	-90.12	12983	034 15:44:09	10.30	9358	034 17:15:48	33.47	3115
034 18:36:05	-116.59	12984	034 17:29:02	-16.05	9359	034 19:00:44	7.11	3116
034 20:21:27	-143.05	12985	034 19:13:54	-42.39	9360	034 20:45:40	-19.25	3117
034 22:06:48	-169.51	12986	034 20:58:47	-68.74	9361	034 22:30:35	-45.61	3118
034 23:52:09	164.02	12987	034 22:43:40	-95.08	9362			
035 01:37:31	137.56	12988	035 00:28:33	-121.43	9363	035 00:15:31	-71.97	3119
035 03:22:52	111.09	12989	035 02:13:26	-147.77	9364	035 02:00:27	-98.33	3120
035 05:08:13	84.63	12990	035 03:58:18	-174.12	9365	035 03:45:23	-124.68	3121
035 06:53:34	58.16	12991	035 05:43:11	159.53	9366	035 05:30:19	-151.04	3122
035 08:38:56	31.70	12992	035 07:28:04	133.19	9367	035 07:15:15	-177.40	3123
035 10:24:17	5.24	12993	035 09:12:57	106.84	9368	035 09:00:10	156.24	3124
035 12:09:38	-21.23	12994	035 10:57:50	80.50	9369	035 10:45:06	129.88	3125
035 13:54:59	-47.69	12995	035 12:42:42	54.15	9370	035 12:30:02	103.53	3126
035 15:40:21	-74.16	12996	035 14:27:35	27.81	9371	035 14:14:58	77.17	3127
035 17:25:42	-100.62	12997	035 16:12:28	1.46	9372	035 15:59:54	50.81	3128
035 19:11:03	-127.09	12998	035 17:57:21	-24.89	9373	035 17:44:50	24.45	3129
035 20:56:25	-153.55	12999	035 19:42:14	-51.23	9374	035 19:29:46	-1.91	3130
035 22:41:46	179.99	13000	035 21:27:06	-77.58	9375	035 21:14:41	-28.27	3131
			035 23:11:59	-103.92	9376	035 22:59:37	-54.62	3132
036 00:27:07	153.52	13001	036 00:56:52	-130.27	9377	036 00:44:33	-80.98	3133
036 02:12:28	127.06	13002	036 02:41:45	-156.61	9378	036 02:29:29	-107.34	3134
036 03:57:50	100.59	13003	036 04:26:38	177.04	9379	036 04:14:25	-133.70	3135
036 05:43:11	74.13	13004	036 06:11:30	150.69	9380	036 05:59:21	-160.05	3136
036 07:28:32	47.66	13005	036 07:56:23	124.35	9381	036 07:44:16	173.58	3137
036 09:13:53	21.20	13006	036 09:41:16	98.00	9382	036 09:29:12	147.23	3138
036 10:59:15	-5.26	13007	036 11:26:09	71.66	9383	036 11:14:08	120.87	3139
036 12:44:36	-31.73	13008	036 13:11:02	45.31	9384	036 12:59:04	94.51	3140
036 14:29:57	-58.19	13009	036 14:55:54	18.97	9385	036 14:44:00	68.15	3141
036 16:15:19	-84.66	13010	036 16:40:47	-7.38	9386	036 16:28:56	41.80	3142
036 18:00:40	-111.12	13011	036 18:25:40	-33.72	9387	036 18:13:51	15.44	3143
036 19:46:01	-137.59	13012	036 20:10:33	-60.07	9388	036 19:58:47	-10.92	3144
036 21:31:22	-164.05	13013	036 21:55:26	-86.41	9389	036 21:43:43	-37.28	3145
036 23:16:44	169.49	13014	036 23:40:18	-112.76	9390	036 23:28:39	-63.64	3146

West longitude is negative (-)

Satellite 1			Satellite 2			Satellite 3		
TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg.dg		day hr mn sc	deg.dg		day hr mn sc	deg.dg	
037 01:02:05	143.02	13015	037 01:25:11	-139.11	9391	037 01:13:35	-89.99	3147
037 02:47:26	116.56	13016	037 03:10:04	-165.45	9392	037 02:58:31	-116.35	3148
037 04:32:48	90.09	13017	037 04:54:57	168.20	9393	037 04:43:26	-142.71	3149
037 06:18:09	63.63	13018	037 06:39:50	141.86	9394	037 06:28:22	-169.07	3150
037 08:03:30	37.16	13019	037 08:24:42	115.51	9395	037 08:13:18	164.57	3151
037 09:48:51	10.70	13020	037 10:09:35	89.16	9396	037 09:58:14	138.21	3152
037 11:34:13	-15.76	13021	037 11:54:28	62.82	9397	037 11:43:10	111.86	3153
037 13:19:34	-42.23	13022	037 13:39:21	36.47	9398	037 13:28:06	85.50	3154
037 15:04:55	-68.69	13023	037 15:24:14	10.13	9399	037 15:13:01	59.14	3155
037 16:50:16	-95.16	13024	037 17:09:06	-16.22	9400	037 16:57:57	32.78	3156
037 18:35:38	-121.62	13025	037 18:53:59	-42.56	9401	037 18:42:53	6.42	3157
037 20:20:59	-148.09	13026	037 20:38:52	-68.91	9402	037 20:27:49	-19.94	3158
037 22:06:20	-174.55	13027	037 22:23:45	-95.25	9403	037 22:12:45	-46.29	3159
037 23:51:42	158.99	13028				037 23:57:41	-72.65	3160
038 01:37:03	132.52	13029	038 00:08:38	-121.60	9404	038 01:42:37	-99.01	3161
038 03:22:24	106.06	13030	038 01:53:30	-147.95	9405	038 03:27:32	-125.37	3162
038 05:07:45	79.59	13031	038 03:38:23	-174.29	9406	038 05:12:28	-151.73	3163
038 06:53:07	53.13	13032	038 05:23:16	159.36	9407	038 06:57:24	-178.08	3164
038 08:38:28	26.66	13033	038 07:08:09	133.02	9408	038 08:42:20	155.56	3165
038 10:23:49	20	13034	038 08:53:02	106.67	9409	038 10:27:16	129.20	3166
038 12:09:10	-26.27	13035	038 10:37:54	80.32	9410	038 12:12:12	102.84	3167
038 13:54:32	-52.73	13036	038 12:22:47	53.98	9411	038 13:57:07	76.48	3168
038 15:39:53	-79.20	13037	038 14:07:40	27.63	9412	038 15:42:03	50.12	3169
038 17:25:14	-105.66	13038	038 15:52:33	1.29	9413	038 17:26:59	23.77	3170
038 19:10:36	-132.12	13039	038 17:37:26	-25.06	9414	038 19:11:55	-2.59	3171
038 20:55:57	-158.59	13040	038 19:22:18	-51.40	9415	038 20:56:51	-28.95	3172
038 22:41:18	174.95	13041	038 21:07:11	-77.75	9416	038 22:41:47	-55.31	3173
			038 22:52:04	-104.09	9417			
039 00:26:39	148.48	13042	039 00:36:57	-130.44	9418	039 00:26:42	-81.67	3174
039 02:12:01	122.02	13043	039 02:21:50	-156.78	9419	039 02:11:38	-108.02	3175
039 03:57:22	95.55	13044	039 04:06:43	176.87	9420	039 03:56:34	-134.38	3176
039 05:42:43	69.09	13045	039 05:51:35	150.52	9421	039 05:41:30	-160.74	3177
039 07:28:04	42.62	13046	039 07:36:28	124.18	9422	039 07:26:26	172.90	3178
039 09:13:26	16.16	13047	039 09:21:21	97.83	9423	039 09:11:22	146.54	3179
039 10:58:47	-10.30	13048	039 11:06:14	71.49	9424	039 10:56:17	120.18	3180
039 12:44:08	-36.77	13049	039 12:51:07	45.14	9425	039 12:41:13	93.83	3181
039 14:29:30	-63.23	13050	039 14:35:59	18.80	9426	039 14:26:09	67.47	3182
039 16:14:51	-89.70	13051	039 16:20:52	-7.55	9427	039 16:11:05	41.11	3183
039 18:00:12	-116.16	13052	039 18:05:45	-33.89	9428	039 17:56:01	14.75	3184
039 19:45:33	-142.63	13053	039 19:50:38	-60.24	9429	039 19:40:57	-11.60	3185
039 21:30:55	-169.09	13054	039 21:35:31	-86.58	9430	039 21:25:53	-37.96	3186
039 23:16:16	164.45	13055	039 23:20:23	-112.93	9431	039 23:10:48	-64.32	3187
040 01:01:37	137.98	13056	040 01:05:16	-139.28	9432	040 00:55:44	-90.68	3188
040 02:46:58	111.52	13057	040 02:50:09	-165.62	9433	040 02:40:40	-117.04	3189
040 04:32:20	85.05	13058	040 04:35:02	168.03	9434	040 04:25:36	-143.40	3190
040 06:17:41	58.59	13059	040 06:19:55	141.69	9435	040 06:10:32	-169.75	3191
040 08:03:02	32.12	13060	040 08:04:47	115.34	9436	040 07:55:28	163.89	3192
040 09:48:24	5.66	13061	040 09:49:40	88.99	9437	040 09:40:23	137.53	3193
040 11:33:45	-20.80	13062	040 11:34:33	62.65	9438	040 11:25:19	111.17	3194
040 13:19:06	-47.27	13063	040 13:19:26	36.30	9439	040 13:10:15	84.81	3195
040 15:04:27	-73.73	13064	040 15:04:19	9.96	9440	040 14:55:11	58.45	3196
040 16:49:49	-100.20	13065	040 16:49:11	-16.39	9441	040 16:40:07	32.10	3197
040 18:35:10	-126.66	13066	040 18:34:04	-42.73	9442	040 18:25:03	5.74	3198
040 20:20:31	-153.13	13067	040 20:18:57	-69.08	9443	040 20:09:58	-20.62	3199
040 22:05:52	-179.59	13068	040 22:03:50	-95.42	9444	040 21:54:54	-46.98	3200
040 23:51:14	153.95	13069	040 23:48:43	-121.77	9445	040 23:39:50	-73.34	3201

West longitude is negative (—)

Satellite 1

Satellite 2

Satellite 3

TIME (GMT) E. LONG. ORBIT
day hr mn sc deg.dg

041 01:36:35 127.48 13070
041 03:21:56 101.02 13071
041 05:07:18 74.55 13072
041 06:52:39 48.09 13073
041 08:38:00 21.62 13074
041 10:23:21 -4.84 13075
041 12:08:43 -31.30 13076
041 13:54:04 -57.77 13077
041 15:39:25 -84.23 13078
041 17:24:46 -110.70 13079
041 19:10:08 -137.16 13080
041 20:55:29 -163.63 13081
041 22:40:50 -169.91 13082

042 00:26:12 143.45 13083
042 02:11:33 116.98 13084
042 03:56:54 90.52 13085
042 05:42:15 64.05 13086
042 07:27:37 37.59 13087
042 09:12:58 11.12 13088
042 10:58:19 -15.34 13089
042 12:43:40 -41.81 13090
042 14:29:02 -68.27 13091
042 16:14:23 -94.73 13092
042 17:59:44 -121.20 13093
042 19:45:06 -147.66 13094
042 21:30:27 -174.13 13095
042 23:15:48 -159.41 13096

043 01:01:09 132.94 13097
043 02:46:31 106.48 13098
043 04:31:52 80.02 13099
043 06:17:13 53.55 13100
043 08:02:34 27.08 13101
043 09:47:56 .62 13102
043 11:33:17 -25.84 13103
043 13:18:38 -52.31 13104
043 15:03:59 -78.77 13105
043 16:49:21 -105.24 13106
043 18:34:42 -131.70 13107
043 20:20:03 -158.17 13108
043 22:05:25 -175.37 13109
043 23:50:46 -148.91 13110

044 01:36:07 122.44 13111
044 03:21:28 95.98 13112
044 05:06:50 69.51 13113
044 06:52:11 43.05 13114
044 08:37:32 16.58 13115
044 10:22:53 -9.88 13116
044 12:08:15 -36.34 13117
044 13:53:36 -62.81 13118
044 15:38:57 -89.27 13119
044 17:24:19 -115.74 13120
044 19:09:40 -142.20 13121
044 20:55:01 -168.67 13122
044 22:40:22 -164.87 13123

TIME (GMT) E. LONG. ORBIT
day hr mn sc deg.dg

041 01:33:35 -148.12 9446
041 03:18:28 -174.46 9447
041 05:03:21 -159.19 9448
041 06:48:14 -132.85 9449
041 08:33:07 -106.50 9450
041 10:17:59 -80.15 9451
041 12:02:52 -53.81 9452
041 13:47:45 -27.46 9453
041 15:32:38 -1.12 9454
041 17:17:31 -25.23 9455
041 19:02:23 -51.57 9456
041 20:47:16 -77.92 9457
041 22:32:09 -104.26 9458

042 00:17:02 -130.61 9459
042 02:01:55 -156.95 9460
042 03:46:47 -176.70 9461
042 05:31:40 -150.35 9462
042 07:16:33 -124.01 9463
042 09:01:26 -97.66 9464
042 10:46:19 -71.32 9465
042 12:31:11 -44.97 9466
042 14:16:04 -18.63 9467
042 16:00:57 -7.72 9468
042 17:45:50 -34.07 9469
042 19:30:43 -60.41 9470
042 21:15:35 -86.76 9471
042 23:00:28 -113.10 9472

043 00:45:21 -139.45 9473
043 02:30:14 -165.79 9474
043 04:15:07 -167.86 9475
043 06:00:00 -141.52 9476
043 07:44:52 -115.17 9477
043 09:29:45 -88.82 9478
043 11:14:38 -62.48 9479
043 12:59:31 -36.13 9480
043 14:44:24 -9.79 9481
043 16:29:16 -16.56 9482
043 18:14:09 -42.90 9483
043 19:59:02 -69.25 9484
043 21:43:55 -95.59 9485
043 23:28:48 -121.94 9486

044 01:13:40 -148.29 9487
044 02:58:33 -174.63 9488
044 04:43:26 -159.02 9489
044 06:28:19 -132.68 9490
044 08:13:12 -106.33 9491
044 09:58:04 -79.98 9492
044 11:42:57 -53.64 9493
044 13:27:50 -27.29 9494
044 15:12:43 -.95 9495
044 16:57:36 -25.40 9496
044 18:42:28 -51.74 9497
044 20:27:21 -78.09 9498
044 22:12:14 -104.43 9499
044 23:57:07 -130.78 9500

TIME (GMT) E. LONG. ORBIT
day hr mn sc deg.dg

041 01:24:46 -99.69 3202
041 03:09:42 -126.05 3203
041 04:54:38 -152.41 3204
041 06:39:33 -178.77 3205
041 08:24:29 -154.87 3206
041 10:09:25 -128.51 3207
041 11:54:21 -102.16 3208
041 13:39:17 -75.80 3209
041 15:24:13 -49.44 3210
041 17:09:08 -23.08 3211
041 18:54:04 -3.28 3212
041 20:39:00 -29.63 3213
041 22:23:56 -55.99 3214

042 00:09:52 -82.35 3215
042 01:53:48 -108.71 3216
042 03:38:44 -135.07 3217
042 05:23:39 -161.43 3218
042 07:08:35 -172.22 3219
042 08:53:31 -145.86 3220
042 10:38:27 -119.50 3221
042 12:23:23 -93.14 3222
042 14:08:19 -66.79 3223
042 15:53:14 -40.42 3224
042 17:38:10 -14.07 3225
042 19:23:06 -12.29 3226
042 21:08:02 -38.65 3227
042 22:52:58 -65.01 3228

043 00:37:54 -91.36 3229
043 02:22:49 -117.72 3230
043 04:07:45 -144.08 3231
043 05:52:41 -170.44 3232
043 07:37:37 -163.20 3233
043 09:22:33 -136.85 3234
043 11:07:29 -110.49 3235
043 12:52:24 -84.13 3236
043 14:37:20 -57.77 3237
043 16:22:16 -31.41 3238
043 18:07:12 -5.05 3239
043 19:52:08 -21.30 3240
043 21:37:04 -47.66 3241
043 23:22:00 -74.02 3242

044 01:06:55 -100.38 3243
044 02:51:51 -126.74 3244
044 04:36:47 -153.10 3245
044 06:21:43 -179.45 3246
044 08:06:39 -154.19 3247
044 09:51:35 -127.83 3248
044 11:36:30 -101.47 3249
044 13:21:26 -75.11 3250
044 15:06:22 -48.76 3251
044 16:51:18 -22.40 3252
044 18:36:14 -3.96 3253
044 20:21:10 -30.32 3254
044 22:06:05 -56.68 3255
044 23:51:01 -83.04 3256

West longitude is negative (-)

Satellite 1

Satellite 2

Satellite 3

TIME (GMT) E. LONG. ORBIT
day hr mn sc deg.dg

045 00:25:44 138.41 13124
045 02:11:05 111.94 13125
045 03:56:26 85.48 13126
045 05:41:47 59.01 13127
045 07:27:09 32.55 13128
045 09:12:30 6.08 13129
045 10:57:51 -20.38 13130
045 12:43:13 -46.84 13131
045 14:28:34 -73.31 13132
045 16:13:55 -99.77 13133
045 17:59:16 -126.24 13134
045 19:44:38 -152.70 13135
045 21:29:59 -179.17 13136
045 23:15:20 154.37 13137

046 01:00:41 127.90 13138
046 02:46:03 101.44 13139
046 04:31:24 74.98 13140
046 06:16:45 48.51 13141
046 08:02:06 22.05 13142
046 09:47:28 -4.42 13143
046 11:32:49 -30.88 13144
046 13:18:10 -57.35 13145
046 15:03:32 -83.81 13146
046 16:48:53 -110.27 13147
046 18:34:14 -136.74 13148
046 20:19:35 -163.20 13149
046 22:04:57 170.33 13150
046 23:50:18 143.87 13151

047 01:35:39 117.40 13152
047 03:21:00 90.94 13153
047 05:06:22 64.48 13154
047 06:51:43 38.01 13155
047 08:37:04 11.55 13156
047 10:22:25 -14.92 13157
047 12:07:47 -41.38 13158
047 13:53:08 -67.85 13159
047 15:38:29 -94.31 13160
047 17:23:51 -120.77 13161
047 19:09:12 -147.24 13162
047 20:54:33 -173.70 13163
047 22:39:54 159.83 13164

048 00:25:16 133.37 13165
048 02:10:37 106.90 13166
048 03:55:58 80.44 13167
048 05:41:19 53.97 13168
048 07:26:41 27.51 13169
048 09:12:02 1.05 13170
048 10:57:23 -25.42 13171
048 12:42:44 -51.88 13172
048 14:28:06 -78.35 13173
048 16:13:27 -104.81 13174
048 17:58:48 -131.28 13175
048 19:44:10 -157.74 13176
048 21:29:31 175.80 13177
048 23:14:52 149.33 13178

TIME (GMT) E. LONG. ORBIT
day hr mn sc deg.dg

045 01:42:00 -157.12 9501
045 03:26:52 -176.53 9502
045 05:11:45 -150.18 9503
045 06:56:38 -123.84 9504
045 08:41:31 -97.49 9505
045 10:26:24 -71.15 9506
045 12:11:16 -44.80 9507
045 13:56:09 -18.45 9508
045 15:41:02 -7.89 9509
045 17:25:55 -34.24 9510
045 19:10:48 -60.58 9511
045 20:55:40 -86.93 9512
045 22:40:33 -113.27 9513

046 00:25:26 -139.62 9514
046 02:10:19 -165.96 9515
046 03:55:12 -167.69 9516
046 05:40:04 -141.34 9517
046 07:24:57 -115.00 9518
046 09:09:50 -88.65 9519
046 10:54:43 -62.31 9520
046 12:39:36 -35.96 9521
046 14:24:28 -9.62 9522
046 16:09:21 -16.73 9523
046 17:54:14 -43.07 9524
046 19:39:07 -69.42 9525
046 21:24:00 -95.76 9526
046 23:08:52 -122.11 9527

047 00:53:45 -148.46 9528
047 02:38:38 -174.80 9529
047 04:23:31 -158.85 9530
047 06:08:24 -132.51 9531
047 07:53:16 -106.16 9532
047 09:38:09 -79.81 9533
047 11:23:02 -53.47 9534
047 13:07:55 -27.12 9535
047 14:52:48 78.95 9536
047 16:37:40 -25.57 9537
047 18:22:33 -51.91 9538
047 20:07:26 -78.26 9539
047 21:52:19 -104.60 9540
047 23:37:12 -130.95 9541

048 01:22:04 -157.30 9542
048 03:06:57 -176.36 9543
048 04:51:50 -150.01 9544
048 06:36:43 -123.67 9545
048 08:21:36 -97.32 9546
048 10:06:28 -70.97 9547
048 11:51:21 -44.63 9548
048 13:36:14 -18.28 9549
048 15:21:07 -8.06 9550
048 17:06:00 -34.41 9551
048 18:50:53 -60.75 9552
048 20:35:45 -87.10 9553
048 22:20:38 -113.44 9554

TIME (GMT) E. LONG. ORBIT
day hr mn sc deg.dg

045 01:35:57 -109.39 3257
045 03:20:53 -135.75 3258
045 05:05:49 -162.11 3259
045 06:50:45 -171.53 3260
045 08:35:40 -145.17 3261
045 10:20:36 -118.81 3262
045 12:05:32 -92.46 3263
045 13:50:28 -66.10 3264
045 15:35:24 -39.74 3265
045 17:20:20 -13.38 3266
045 19:05:16 -12.97 3267
045 20:50:11 -39.33 3268
045 22:35:07 -65.69 3269

046 00:20:03 -92.05 3270
046 02:04:59 -118.41 3271
046 03:49:55 -144.76 3272
046 05:34:51 -171.12 3273
046 07:19:46 -162.52 3274
046 09:04:42 -136.16 3275
046 10:49:38 -109.80 3276
046 12:34:34 -83.44 3277
046 14:19:30 -57.09 3278
046 16:04:26 -30.73 3279
046 17:49:21 -4.37 3280
046 19:34:17 -21.99 3281
046 21:19:13 -48.35 3282
046 23:04:09 -74.71 3283

047 00:49:05 -101.06 3284
047 02:34:01 -127.42 3285
047 04:18:56 -153.78 3286
047 06:03:52 -179.86 3287
047 07:48:48 -153.50 3288
047 09:33:44 -127.15 3289
047 11:18:40 -100.79 3290
047 13:03:36 -74.43 3291
047 14:48:32 -48.07 3292
047 16:33:27 -21.71 3293
047 18:18:23 -4.65 3294
047 20:03:19 -31.00 3295
047 21:48:15 -57.36 3296
047 23:33:11 -83.72 3297

048 01:18:07 -110.08 3298
048 03:03:02 -136.44 3299
048 04:47:58 -162.80 3300
048 06:32:54 -170.85 3301
048 08:17:50 -144.49 3302
048 10:02:46 -118.13 3303
048 11:47:42 -91.77 3304
048 13:32:37 -65.41 3305
048 15:17:33 -39.06 3306
048 17:02:29 -12.70 3307
048 18:47:25 -13.66 3308
048 20:32:21 -40.02 3309
048 22:17:17 -66.38 3310

West longitude is negative (—)

Satellite 1			Satellite 2			Satellite 3		
TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg.dg		day hr mn sc	deg.dg		day hr mn sc	deg.dg	
049 01:00:13	122.87	13179	049 00:05:31	-139.79	9555	049 00:02:12	-92.74	3311
049 02:45:35	96.40	13180	049 01:50:24	-166.13	9556	049 01:47:08	-119.09	3312
049 04:30:56	69.94	13181	049 03:35:17	167.52	9557	049 03:32:04	-145.45	3313
049 06:16:17	43.47	13182	049 05:20:09	141.17	9558	049 05:17:00	-171.81	3314
049 08:01:38	17.01	13183	049 07:05:02	114.83	9559	049 07:01:56	161.83	3315
049 09:47:00	-9.45	13184	049 08:49:55	88.48	9560	049 08:46:52	135.48	3316
049 11:32:21	-35.92	13185	049 10:34:48	62.14	9561	049 10:31:48	109.12	3317
049 13:17:42	-62.38	13186	049 12:19:41	35.79	9562	049 12:16:43	82.76	3318
049 15:03:03	-88.85	13187	049 14:04:33	9.45	9563	049 14:01:39	56.40	3319
049 16:48:25	-115.31	13188	049 15:49:26	-16.90	9564	049 15:46:35	30.04	3320
049 18:33:46	-141.78	13189	049 17:34:19	-43.24	9565	049 17:31:31	3.68	3321
049 20:19:07	-168.24	13190	049 19:19:12	-69.59	9566	049 19:16:27	-22.67	3322
049 22:04:29	165.30	13191	049 21:04:05	-95.93	9567	049 21:01:23	-49.03	3323
049 23:49:50	138.83	13192	049 22:48:57	-122.28	9568	049 22:46:18	-75.39	3324
050 01:35:11	112.37	13193	050 00:33:50	-148.63	9569	050 00:31:14	-101.75	3325
050 03:20:32	85.90	13194	050 02:18:43	-174.97	9570	050 02:16:10	-128.11	3326
050 05:05:54	59.44	13195	050 04:03:36	158.68	9571	050 04:01:06	-154.46	3327
050 06:51:15	32.97	13196	050 05:48:29	132.34	9572	050 05:46:02	179.18	3328
050 08:36:36	6.51	13197	050 07:33:21	105.99	9573	050 07:30:58	152.82	3329
050 10:21:57	-19.96	13198	050 09:18:14	79.64	9574	050 09:15:53	126.46	3330
050 12:07:19	-46.42	13199	050 11:03:07	53.30	9575	050 11:00:49	100.10	3331
050 13:52:40	-72.88	13200	050 12:48:00	26.95	9576	050 12:45:45	73.74	3332
050 15:38:01	-99.35	13201	050 14:32:53	.61	9577	050 14:30:41	47.39	3333
050 17:23:22	-125.81	13202	050 16:17:45	-25.74	9578	050 16:15:37	21.03	3334
050 19:08:44	-152.28	13203	050 18:02:38	-52.08	9579	050 18:00:33	-5.33	3335
050 20:54:05	-178.74	13204	050 19:47:31	-78.43	9580	050 19:45:29	-31.69	3336
050 22:39:26	154.79	13205	050 21:32:24	-104.77	9581	050 21:30:24	-58.05	3337
			050 23:17:17	-131.12	9582	050 23:15:20	-84.41	3338
051 00:24:48	128.33	13206	051 01:02:09	-157.47	9583	051 01:00:16	-110.76	3339
051 02:10:09	101.87	13207	051 02:47:02	176.19	9584	051 02:45:12	-137.12	3340
051 03:55:30	75.40	13208	051 04:31:55	149.84	9585	051 04:30:08	-163.48	3341
051 05:40:51	48.94	13209	051 06:16:48	123.50	9586	051 06:15:04	170.16	3342
051 07:26:13	22.47	13210	051 08:01:41	97.15	9587	051 07:59:59	143.80	3343
051 09:11:34	-3.99	13211	051 09:46:33	70.81	9588	051 09:44:55	117.45	3344
051 10:56:55	-30.46	13212	051 11:31:26	44.46	9589	051 11:29:51	91.09	3345
051 12:42:16	-56.92	13213	051 13:16:19	18.12	9590	051 13:14:47	64.73	3346
051 14:27:38	-83.38	13214	051 15:01:12	-8.23	9591	051 14:59:43	38.37	3347
051 16:12:59	-109.85	13215	051 16:46:05	-34.58	9592	051 16:44:39	12.01	3348
051 17:58:20	-136.31	13216	051 18:30:57	-60.92	9593	051 18:29:34	-14.35	3349
051 19:43:41	-162.78	13217	051 20:15:50	-87.27	9594	051 20:14:30	-40.70	3350
051 21:29:03	170.76	13218	051 22:00:43	-113.61	9595	051 21:59:26	-67.06	3351
051 23:14:24	144.29	13219	051 23:45:36	-139.96	9596	051 23:44:22	-93.42	3352
052 00:59:45	117.83	13220	052 01:30:29	-166.30	9597	052 01:29:18	-119.78	3353
052 02:45:06	91.36	13221	052 03:15:21	167.35	9598	052 03:14:14	-146.13	3354
052 04:30:28	64.90	13222	052 05:00:14	141.00	9599	052 04:59:10	-172.49	3355
052 06:15:49	38.44	13223	052 06:45:07	114.66	9600	052 06:44:05	161.15	3356
052 08:01:10	11.97	13224	052 08:30:00	88.31	9601	052 08:29:01	134.79	3357
052 09:46:32	-14.49	13225	052 10:14:53	61.97	9602	052 10:13:57	108.43	3358
052 11:31:53	-40.96	13226	052 11:59:45	35.62	9603	052 11:58:53	82.07	3359
052 13:17:14	-67.42	13227	052 13:44:38	9.28	9604	052 13:43:49	55.72	3360
052 15:02:35	-93.89	13228	052 15:29:31	-17.07	9605	052 15:28:45	29.36	3361
052 16:47:57	-120.35	13229	052 17:14:24	-43.41	9606	052 17:13:40	3.00	3362
052 18:33:18	-146.81	13230	052 18:59:17	-69.76	9607	052 18:58:36	-23.36	3363
052 20:18:39	-173.28	13231	052 20:44:09	-96.11	9608	052 20:43:32	-49.72	3364
052 22:04:00	160.26	13232	052 22:29:02	-122.45	9609	052 22:28:28	-76.08	3365
052 23:49:22	133.79	13233						

West longitude is negative (—)

Satellite 1			Satellite 2			Satellite 3		
TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg. dg		day hr mn sc	deg. dg		day hr mn sc	deg. dg	
053 01:34:43	107.33	13234	053 00:13:55	-148.80	9610	053 00:13:24	-102.43	3366
053 03:20:04	80.86	13235	053 01:58:48	-175.14	9611	053 01:58:20	-128.79	3367
053 05:05:25	54.40	13236	053 03:43:41	158.51	9612	053 03:43:15	-155.15	3368
053 06:50:47	27.94	13237	053 05:28:33	132.17	9613	053 05:28:11	178.49	3369
053 08:36:08	1.47	13238	053 07:13:26	105.82	9614	053 07:13:07	152.13	3370
053 10:21:29	-24.99	13239	053 08:58:19	79.48	9615	053 08:58:03	125.78	3371
053 12:06:50	-51.46	13240	053 10:43:12	53.13	9616	053 10:42:59	99.42	3372
053 13:52:12	-77.92	13241	053 12:28:05	26.78	9617	053 12:27:55	73.06	3373
053 15:37:33	-104.39	13242	053 14:12:57	44	9618	053 14:12:51	46.70	3374
053 17:22:54	-130.85	13243	053 15:57:50	-25.91	9619	053 15:57:46	20.34	3375
053 19:08:16	-157.31	13244	053 17:42:43	-52.25	9620	053 17:42:42	-6.02	3376
053 20:53:37	176.22	13245	053 19:27:36	-78.60	9621	053 19:27:38	-32.37	3377
053 22:38:58	149.76	13246	053 21:12:29	-104.94	9622	053 21:12:34	-58.73	3378
			053 22:57:21	-131.29	9623	053 22:57:30	-85.09	3379
054 00:24:19	123.29	13247	054 00:42:14	-157.64	9624	054 00:42:26	-111.45	3380
054 02:09:41	96.83	13248	054 02:27:07	176.02	9625	054 02:27:21	-137.81	3381
054 03:55:02	70.37	13249	054 04:12:00	149.67	9626	054 04:12:17	-164.17	3382
054 05:40:23	43.90	13250	054 05:56:53	123.33	9627	054 05:57:13	169.48	3383
054 07:25:44	17.44	13251	054 07:41:45	96.98	9628	054 07:42:09	143.12	3384
054 09:11:06	-9.03	13252	054 09:26:38	70.64	9629	054 09:27:05	116.76	3385
054 10:56:27	-35.49	13253	054 11:11:31	44.29	9630	054 11:12:01	90.40	3386
054 12:41:48	-61.96	13254	054 12:56:24	17.95	9631	054 12:56:56	64.04	3387
054 14:27:09	-88.42	13255	054 14:41:16	-8.40	9632	054 14:41:52	37.69	3388
054 16:12:31	-114.88	13256	054 16:26:09	-34.75	9633	054 16:26:48	11.33	3389
054 17:57:52	-141.35	13257	054 18:11:02	-61.09	9634	054 18:11:44	-15.03	3390
054 19:43:13	-167.81	13258	054 19:55:55	-87.44	9635	054 19:56:40	-41.39	3391
054 21:28:34	165.72	13259	054 21:40:48	-113.78	9636	054 21:41:36	-67.75	3392
054 23:13:56	139.26	13260	054 23:25:40	-140.13	9637	054 23:26:32	-94.10	3393
055 00:59:17	112.79	13261	055 01:10:33	-166.47	9638	055 01:11:27	-120.46	3394
055 02:44:38	86.33	13262	055 02:55:26	167.18	9639	055 02:56:23	-146.82	3395
055 04:29:59	59.86	13263	055 04:40:19	140.84	9640	055 04:41:19	-173.18	3396
055 06:15:21	33.40	13264	055 06:25:12	114.49	9641	055 06:26:15	166.46	3397
055 08:00:42	6.94	13265	055 08:10:04	88.14	9642	055 08:11:11	134.11	3398
055 09:46:03	-19.53	13266	055 09:54:57	61.80	9643	055 09:56:07	107.75	3399
055 11:31:25	-45.99	13267	055 11:39:50	35.45	9644	055 11:41:02	81.39	3400
055 13:16:46	-72.46	13268	055 13:24:43	9.11	9645	055 13:25:58	55.03	3401
055 15:02:07	-98.92	13269	055 15:09:36	-17.24	9646	055 15:10:54	28.67	3402
055 16:47:28	-125.39	13270	055 16:54:28	-43.59	9647	055 16:55:50	2.31	3403
055 18:32:50	-151.85	13271	055 18:39:21	-69.93	9648	055 18:40:46	-24.04	3404
055 20:18:11	-178.31	13272	055 20:24:14	-96.28	9649	055 20:25:42	-50.40	3405
055 22:03:32	155.22	13273	055 22:09:07	-122.62	9650	055 22:10:38	-76.76	3406
055 23:48:53	128.76	13274	055 23:54:00	-148.97	9651	055 23:55:33	-103.12	3407
056 01:34:15	102.29	13275	056 01:38:52	-175.31	9652	056 01:40:29	-129.48	3408
056 03:19:36	75.83	13276	056 03:23:45	158.34	9653	056 03:25:25	-155.84	3409
056 05:04:57	49.36	13277	056 05:08:38	132.00	9654	056 05:10:21	177.81	3410
056 06:50:18	22.90	13278	056 06:53:31	105.65	9655	056 06:55:17	151.45	3411
056 08:35:40	-3.56	13279	056 08:38:24	79.31	9656	056 08:40:13	125.09	3412
056 10:21:01	-30.03	13280	056 10:23:16	52.96	9657	056 10:25:08	98.73	3413
056 12:06:22	-56.49	13281	056 12:08:09	26.61	9658	056 12:10:04	72.37	3414
056 13:51:43	-82.96	13282	056 13:53:02	27	9659	056 13:55:00	46.02	3415
056 15:37:05	-109.42	13283	056 15:37:55	-26.08	9660	056 15:39:56	19.66	3416
056 17:22:26	-135.89	13284	056 17:22:48	-52.42	9661	056 17:24:52	-6.70	3417
056 19:07:47	-162.35	13285	056 19:07:40	-78.77	9662	056 19:09:48	-33.06	3418
056 20:53:08	171.18	13286	056 20:52:33	-105.11	9663	056 20:54:43	-59.42	3419
056 22:38:30	144.72	13287	056 22:37:26	-131.46	9664	056 22:39:39	-85.78	3420

West longitude is negative (—)

Satellite 1			Satellite 2			Satellite 3		
TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg.dg		day hr mn sc	deg.dg		day hr mn sc	deg.dg	
057 00:23:51	118.26	13288	057 00:22:19	-157.80	9665	057 00:24:35	-112.13	3421
057 02:09:12	91.79	13289	057 02:07:12	175.85	9666	057 02:09:31	-138.49	3422
057 03:54:34	65.33	13290	057 03:52:04	149.50	9667	057 03:54:27	-164.85	3423
057 05:39:55	38.86	13291	057 05:36:57	123.16	9668	057 05:39:23	168.79	3424
057 07:25:16	12.40	13292	057 07:21:50	96.81	9669	057 07:24:19	142.43	3425
057 09:10:37	-14.07	13293	057 09:06:43	70.47	9670	057 09:09:14	116.07	3426
057 10:55:59	-40.53	13294	057 10:51:36	44.12	9671	057 10:54:10	89.72	3427
057 12:41:20	-66.99	13295	057 12:36:28	17.77	9672	057 12:39:06	63.36	3428
057 14:26:41	-93.46	13296	057 14:21:21	-8.57	9673	057 14:24:02	37.00	3429
057 16:12:02	-119.92	13297	057 16:06:14	-34.92	9674	057 16:08:58	10.64	3430
057 17:57:24	-146.39	13298	057 17:51:07	-61.26	9675	057 17:53:54	-15.71	3431
057 19:42:45	-172.85	13299	057 19:36:00	-87.61	9676	057 19:38:49	-42.08	3432
057 21:28:06	160.68	13300	057 21:20:52	-113.95	9677	057 21:23:45	-68.43	3433
057 23:13:27	134.22	13301	057 23:05:45	-140.30	9678	057 23:08:41	-94.79	3434
058 00:58:49	107.76	13302	058 00:50:38	-166.64	9679	058 00:53:37	-121.15	3435
058 02:44:10	81.29	13303	058 02:35:31	167.01	9680	058 02:38:33	-147.51	3436
058 04:29:31	54.83	13304	058 04:20:24	140.67	9681	058 04:23:29	-173.86	3437
058 06:14:52	28.36	13305	058 06:05:16	114.32	9682	058 06:08:25	159.78	3438
058 08:00:14	1.90	13306	058 07:50:09	87.97	9683	058 07:53:20	133.42	3439
058 09:45:35	-24.56	13307	058 09:35:02	61.63	9684	058 09:38:16	107.06	3440
058 11:30:56	-51.03	13308	058 11:19:55	35.28	9685	058 11:23:12	80.70	3441
058 13:16:17	-77.49	13309	058 13:04:47	8.94	9686	058 13:08:08	54.34	3442
058 15:01:39	-103.96	13310	058 14:49:40	-17.41	9687	058 14:53:04	27.99	3443
058 16:47:00	-130.42	13311	058 16:34:33	-43.75	9688	058 16:38:00	1.63	3444
058 18:32:21	-156.89	13312	058 18:19:26	-70.10	9689	058 18:22:55	-24.73	3445
058 20:17:42	176.65	13313	058 20:04:19	-96.44	9690	058 20:07:51	-51.09	3446
058 22:03:04	150.19	13314	058 21:49:11	-122.79	9691	058 21:52:47	-77.45	3447
058 23:48:25	123.72	13315	058 23:34:04	-149.14	9692	058 23:37:43	-103.80	3448
059 01:33:46	97.26	13316	059 01:18:57	-175.48	9693	059 01:22:39	-130.16	3449
059 03:19:07	70.79	13317	059 03:03:50	158.17	9694	059 03:07:35	-156.52	3450
059 05:04:29	44.33	13318	059 04:48:43	131.83	9695	059 04:52:31	177.12	3451
059 06:49:50	17.86	13319	059 06:33:35	105.48	9696	059 06:37:26	150.76	3452
059 08:35:11	-8.60	13320	059 08:18:28	79.14	9697	059 08:22:22	124.40	3453
059 10:20:33	-35.06	13321	059 10:03:21	52.79	9698	059 10:07:18	98.05	3454
059 12:05:54	-61.53	13322	059 11:48:14	26.45	9699	059 11:52:14	71.69	3455
059 13:51:15	-87.99	13323	059 13:33:07	1.10	9700	059 13:37:10	45.33	3456
059 15:36:36	-114.46	13324	059 15:17:59	-26.25	9701	059 15:22:06	18.97	3457
059 17:21:58	-140.92	13325	059 17:02:52	-52.59	9702	059 17:07:01	-7.39	3458
059 19:07:19	-167.39	13326	059 18:47:45	-78.94	9703	059 18:51:57	-33.75	3459
059 20:52:40	166.15	13327	059 20:32:38	-105.28	9704	059 20:36:53	-60.10	3460
059 22:38:01	139.68	13328	059 22:17:31	-131.63	9705	059 22:21:49	-86.46	3461
060 00:23:23	113.22	13329	060 00:02:23	-157.97	9706	060 00:06:45	-112.82	3462
060 02:08:44	86.76	13330	060 01:47:16	175.68	9707	060 01:51:41	-139.18	3463
060 03:54:05	60.29	13331	060 03:32:09	149.34	9708	060 03:36:37	-165.53	3464
060 05:39:26	33.83	13332	060 05:17:02	122.99	9709	060 05:21:32	168.10	3465
060 07:24:48	7.36	13333	060 07:01:55	96.65	9710	060 07:06:28	141.75	3466
060 09:10:09	-19.10	13334	060 08:46:47	70.30	9711	060 08:51:24	115.39	3467
060 10:55:30	-45.57	13335	060 10:31:40	43.95	9712	060 10:36:20	89.03	3468
060 12:40:51	-72.03	13336	060 12:16:33	17.61	9713	060 12:21:16	62.67	3469
060 14:26:13	-98.49	13337	060 14:01:26	-8.74	9714	060 14:06:12	36.32	3470
060 16:11:34	-124.96	13338	060 15:46:19	-35.08	9715	060 15:51:08	9.96	3471
060 17:56:55	-151.42	13339	060 17:31:11	-61.43	9716	060 17:36:03	-16.40	3472
060 19:42:16	-177.89	13340	060 19:16:04	-87.78	9717	060 19:20:59	-42.76	3473
060 21:27:38	155.65	13341	060 21:00:57	-114.12	9718	060 21:05:55	-69.12	3474
060 23:12:59	129.19	13342	060 22:45:50	-140.47	9719	060 22:50:51	-95.48	3475

West longitude is negative (-)

Satellite 1

TIME (GMT) day hr mn sc	E. LONG. deg.dg	ORBIT
061 00:58:20	102.72	13343
061 02:43:41	76.26	13344
061 04:29:03	49.79	13345
061 06:14:24	23.33	13346
061 07:59:45	-3.14	13347
061 09:45:06	-29.60	13348
061 11:30:28	-56.06	13349
061 13:15:49	-82.53	13350
061 15:01:10	-108.99	13351
061 16:46:31	-135.46	13352
061 18:31:53	-161.92	13353
061 20:17:14	-171.61	13354
061 22:02:35	-145.15	13355
061 23:47:56	-118.68	13356
062 01:33:18	92.22	13357
062 03:18:39	65.76	13358
062 05:04:00	39.29	13359
062 06:49:21	12.83	13360
062 08:34:43	-13.64	13361
062 10:20:04	-40.10	13362
062 12:05:25	-66.57	13363
062 13:50:46	-93.03	13364
062 15:36:08	-119.49	13365
062 17:21:29	-145.96	13366
062 19:06:50	-172.42	13367
062 20:52:12	-161.11	13368
062 22:37:33	-134.65	13369
063 00:22:54	108.18	13370
063 02:08:15	81.72	13371
063 03:53:37	55.26	13372
063 05:38:58	28.79	13373
063 07:24:19	2.33	13374
063 09:09:40	-24.14	13375
063 10:55:02	-50.60	13376
063 12:40:23	-77.06	13377
063 14:25:44	-103.53	13378
063 16:11:05	-129.99	13379
063 17:56:27	-156.46	13380
063 19:41:48	-177.08	13381
063 21:27:09	-150.61	13382
063 23:12:30	-124.15	13383
064 00:57:52	97.69	13384
064 02:43:13	71.22	13385
064 04:28:34	44.76	13386
064 06:13:55	18.29	13387
064 07:59:17	-8.17	13388
064 09:44:38	-34.64	13389
064 11:29:59	-61.10	13390
064 13:15:20	-87.57	13391
064 15:00:42	-114.03	13392
064 16:46:03	-140.49	13393
064 18:31:24	-166.96	13394
064 20:16:45	-166.58	13395
064 22:02:07	-140.11	13396
064 23:47:28	-113.65	13397

Satellite 2

TIME (GMT) day hr mn sc	E. LONG. deg.dg	ORBIT
061 00:30:42	-166.81	9720
061 02:15:35	166.84	9721
061 04:00:28	140.50	9722
061 05:45:21	114.15	9723
061 07:30:14	87.81	9724
061 09:15:06	61.46	9725
061 10:59:59	35.11	9726
061 12:44:52	8.77	9727
061 14:29:45	-17.58	9728
061 16:14:38	-43.92	9729
061 17:59:30	-70.27	9730
061 19:44:23	-96.61	9731
061 21:29:16	-122.96	9732
061 23:14:09	-149.30	9733
062 00:59:02	-175.65	9734
062 02:43:54	158.00	9735
062 04:28:47	131.66	9736
062 06:13:40	105.31	9737
062 07:58:33	78.97	9738
062 09:43:25	52.62	9739
062 11:28:18	26.28	9740
062 13:13:11	-0.07	9741
062 14:58:04	-26.41	9742
062 16:42:57	-52.76	9743
062 18:27:49	-79.11	9744
062 20:12:42	-105.45	9745
062 21:57:35	-131.80	9746
062 23:42:28	-158.14	9747
063 01:27:21	175.51	9748
063 03:12:13	149.17	9749
063 04:57:06	122.82	9750
063 06:41:59	96.48	9751
063 08:26:52	70.13	9752
063 10:11:45	43.79	9753
063 11:56:37	17.44	9754
063 13:41:30	-8.91	9755
063 15:26:23	-35.25	9756
063 17:11:16	-61.60	9757
063 18:56:08	-87.94	9758
063 20:41:01	-114.29	9759
063 22:25:54	-140.63	9760
064 00:10:47	-166.98	9761
064 01:55:40	166.68	9762
064 03:40:32	140.33	9763
064 05:25:25	113.98	9764
064 07:10:18	87.64	9765
064 08:55:11	61.29	9766
064 10:40:04	34.95	9767
064 12:24:56	8.60	9768
064 14:09:49	-17.75	9769
064 15:54:42	-44.09	9770
064 17:39:35	-70.44	9771
064 19:24:28	-96.78	9772
064 21:09:20	-123.13	9773
064 22:54:13	-149.47	9774

Satellite 3

TIME (GMT) day hr mn sc	E. LONG. deg.dg	ORBIT
061 00:35:47	-121.83	3476
061 02:20:43	-148.19	3477
061 04:05:38	-174.55	3478
061 05:50:34	159.09	3479
061 07:35:30	132.73	3480
061 09:20:26	106.37	3481
061 11:05:22	80.02	3482
061 12:50:18	53.66	3483
061 14:35:14	27.30	3484
061 16:20:09	.94	3485
061 18:05:05	-25.42	3486
061 19:50:01	-51.77	3487
061 21:34:57	-78.13	3488
061 23:19:53	-104.49	3489
062 01:04:49	-130.85	3490
062 02:49:44	-157.21	3491
062 04:34:40	176.43	3492
062 06:19:36	150.08	3493
062 08:04:32	123.72	3494
062 09:49:28	97.36	3495
062 11:34:24	71.00	3496
062 13:19:20	44.64	3497
062 15:04:15	18.28	3498
062 16:49:11	-8.07	3499
062 18:34:07	-34.43	3500
062 20:19:03	-60.79	3501
062 22:03:59	-87.15	3502
062 23:48:55	-113.50	3503
063 01:33:51	-139.86	3504
063 03:18:46	-166.22	3505
063 05:03:42	167.42	3506
063 06:48:38	141.06	3507
063 08:33:34	114.70	3508
063 10:18:30	88.35	3509
063 12:03:26	61.99	3510
063 13:48:21	35.63	3511
063 15:33:17	9.27	3512
063 17:18:13	-17.09	3513
063 19:03:09	-43.45	3514
063 20:48:05	-69.80	3515
063 22:33:01	-96.16	3516
064 00:17:57	-122.52	3517
064 02:02:52	-148.88	3518
064 03:47:48	-175.24	3519
064 05:32:44	158.40	3520
064 07:17:40	132.05	3521
064 09:02:36	105.69	3522
064 10:47:32	79.33	3523
064 12:32:28	52.97	3524
064 14:17:23	26.61	3525
064 16:02:19	.25	3526
064 17:47:15	-26.10	3527
064 19:32:11	-52.46	3528
064 21:17:07	-78.82	3529
064 23:02:03	-105.18	3530

West longitude is negative (—)

Satellite 1

TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg.dg	
065 01:32:49	87.18	13398
065 03:18:10	60.72	13399
065 05:03:32	34.26	13400
065 06:48:53	7.79	13401
065 08:34:14	-18.67	13402
065 10:19:35	-45.14	13403
065 12:04:57	-71.60	13404
065 13:50:18	-98.06	13405
065 15:35:39	-124.53	13406
065 17:21:00	-150.99	13407
065 19:06:22	-177.46	13408
065 20:51:43	-156.08	13409
065 22:37:04	-129.61	13410

066 00:22:25	103.15	13411
066 02:07:47	76.69	13412
066 03:53:08	50.22	13413
066 05:38:29	23.76	13414
066 07:23:50	-2.71	13415
066 09:09:12	-29.17	13416
066 10:54:33	-55.64	13417
066 12:39:54	-82.10	13418
066 14:25:15	-108.57	13419
066 16:10:37	-135.03	13420
066 17:55:58	-161.49	13421
066 19:41:19	-172.04	13422
066 21:26:40	-145.58	13423
066 23:12:02	-119.12	13424

067 00:57:23	92.65	13425
067 02:42:44	66.19	13426
067 04:28:05	39.72	13427
067 06:13:27	13.26	13428
067 07:58:48	-13.21	13429
067 09:44:09	-39.67	13430
067 11:29:30	-66.14	13431
067 13:14:52	-92.60	13432
067 15:00:13	-119.06	13433
067 16:45:34	-145.53	13434
067 18:30:55	-171.99	13435
067 20:16:17	-161.54	13436
067 22:01:38	-135.08	13437
067 23:46:59	-108.61	13438

068 01:32:20	82.15	13439
068 03:17:42	55.69	13440
068 05:03:03	29.22	13441
068 06:48:24	2.76	13442
068 08:33:45	-23.71	13443
068 10:19:07	-50.17	13444
068 12:04:28	-76.63	13445
068 13:49:49	-103.10	13446
068 15:35:10	-129.56	13447
068 17:20:32	-156.03	13448
068 19:05:53	-177.51	13449
068 20:51:14	-151.04	13450
068 22:36:35	-124.58	13451

Satellite 2

TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg.dg	
065 00:39:06	-175.82	9775
065 02:23:59	-157.84	9776
065 04:08:51	-131.49	9777
065 05:53:44	-105.14	9778
065 07:38:37	-78.80	9779
065 09:23:30	-52.45	9780
065 11:08:23	-26.11	9781
065 12:53:15	-	9782
065 14:38:08	-26.58	9783
065 16:23:01	-52.93	9784
065 18:07:54	-79.27	9785
065 19:52:47	-105.62	9786
065 21:37:39	-131.97	9787
065 23:22:32	-158.31	9788

066 01:07:25	175.34	9789
066 02:52:18	149.00	9790
066 04:37:10	122.65	9791
066 06:22:03	96.31	9792
066 08:06:56	69.96	9793
066 09:51:49	43.62	9794
066 11:36:42	17.27	9795
066 13:21:34	-9.08	9796
066 15:06:27	-35.42	9797
066 16:51:20	-61.77	9798
066 18:36:13	-88.11	9799
066 20:21:06	-114.46	9800
066 22:05:58	-140.80	9801
066 23:50:51	-167.15	9802

067 01:35:44	166.51	9803
067 03:20:37	140.16	9804
067 05:05:29	113.81	9805
067 06:50:22	87.47	9806
067 08:35:15	61.12	9807
067 10:20:08	34.78	9808
067 12:05:01	8.43	9809
067 13:49:53	-17.91	9810
067 15:34:46	-44.26	9811
067 17:19:39	-70.60	9812
067 19:04:32	-96.95	9813
067 20:49:25	-123.29	9814
067 22:34:17	-149.64	9815

068 00:19:10	-175.99	9816
068 02:04:03	-157.67	9817
068 03:48:56	-131.32	9818
068 05:33:48	-104.98	9819
068 07:18:41	-78.63	9820
068 09:03:34	-52.29	9821
068 10:48:27	-25.94	9822
068 12:33:20	-	9823
068 14:18:12	-26.75	9824
068 16:03:05	-53.10	9825
068 17:47:58	-79.44	9826
068 19:32:51	-105.79	9827
068 21:17:44	-132.13	9828
068 23:02:36	-158.48	9829

Satellite 3

TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg.dg	
065 00:46:59	-131.53	3531
065 02:31:54	-157.90	3532
065 04:16:50	-175.75	3533
065 06:01:46	-149.39	3534
065 07:46:42	-123.03	3535
065 09:31:38	-96.67	3536
065 11:16:34	-70.32	3537
065 13:01:29	-43.96	3538
065 14:46:25	-17.60	3539
065 16:31:21	-8.76	3540
065 18:16:17	-35.12	3541
065 20:01:13	-61.48	3542
065 21:46:09	-87.83	3543
065 23:31:05	-114.19	3544

066 01:16:00	-140.55	3545
066 03:00:56	-166.91	3546
066 04:45:52	-166.73	3547
066 06:30:48	-140.37	3548
066 08:15:44	-114.02	3549
066 10:00:40	-87.66	3550
066 11:45:36	-61.30	3551
066 13:30:31	-34.94	3552
066 15:15:27	-8.58	3553
066 17:00:23	-17.78	3554
066 18:45:19	-44.13	3555
066 20:30:15	-70.49	3556
066 22:15:11	-96.85	3557

067 00:00:07	-123.21	3558
067 01:45:02	-149.57	3559
067 03:29:58	-175.92	3560
067 05:14:54	-157.72	3561
067 06:59:50	-131.36	3562
067 08:44:46	-105.00	3563
067 10:29:42	-78.64	3564
067 12:14:38	-52.29	3565
067 13:59:33	-25.93	3566
067 15:44:29	-	3567
067 17:29:25	-26.79	3568
067 19:14:21	-53.15	3569
067 20:59:17	-79.51	3570
067 22:44:13	-105.86	3571

068 00:29:09	-132.22	3572
068 02:14:04	-158.58	3573
068 03:59:00	-175.06	3574
068 05:43:56	-148.70	3575
068 07:28:52	-122.34	3576
068 09:13:48	-95.99	3577
068 10:58:44	-69.63	3578
068 12:43:39	-43.27	3579
068 14:28:35	-16.91	3580
068 16:13:31	-9.45	3581
068 17:58:27	-35.81	3582
068 19:43:23	-62.16	3583
068 21:28:19	-88.52	3584
068 23:13:15	-114.88	3585

West longitude is negative (—)

Satellite 1

TIME (GMT) day hr mn sc	E. LONG. deg. dg	ORBIT
069 00:21:57	98.12	13452
069 02:07:18	71.65	13453
069 03:52:39	45.19	13454
069 05:38:00	18.72	13455
069 07:23:22	-7.74	13456
069 09:08:43	-34.21	13457
069 10:54:04	-60.67	13458
069 12:39:25	-87.14	13459
069 14:24:47	-113.60	13460
069 16:10:08	-140.06	13461
069 17:55:29	-166.53	13462
069 19:40:50	-167.01	13463
069 21:26:12	-140.55	13464
069 23:11:33	-114.08	13465

070 00:56:54	87.62	13466
070 02:42:15	61.15	13467
070 04:27:37	34.69	13468
070 06:12:58	8.22	13469
070 07:58:19	-18.24	13470
070 09:43:40	-44.71	13471
070 11:29:02	-71.17	13472
070 13:14:23	-97.63	13473
070 14:59:44	-124.10	13474
070 16:45:05	-150.56	13475
070 18:30:27	-177.03	13476
070 20:15:48	-156.51	13477
070 22:01:09	-130.04	13478
070 23:46:30	-103.58	13479

071 01:31:52	77.12	13480
071 03:17:13	50.65	13481
071 05:02:34	24.19	13482
071 06:47:55	-2.28	13483
071 08:33:16	-28.74	13484
071 10:18:38	-55.20	13485
071 12:03:59	-81.67	13486
071 13:49:20	-108.13	13487
071 15:34:41	-134.60	13488
071 17:20:03	-161.06	13489
071 19:05:24	-172.47	13490
071 20:50:45	-146.01	13491
071 22:36:06	-119.54	13492

072 00:21:28	93.08	13493
072 02:06:49	66.62	13494
072 03:52:10	40.15	13495
072 05:37:31	13.69	13496
072 07:22:53	-12.78	13497
072 09:08:14	-39.24	13498
072 10:53:35	-65.71	13499
072 12:38:56	-92.17	13500
072 14:24:18	-118.63	13501
072 16:09:39	-145.10	13502
072 17:55:00	-171.56	13503
072 19:40:21	-161.97	13504
072 21:25:43	-135.51	13505
072 23:11:04	-109.05	13506

Satellite 2

TIME (GMT) day hr mn sc	E. LONG. deg. dg	ORBIT
069 00:47:29	175.18	9830
069 02:32:22	148.83	9831
069 04:17:15	122.49	9832
069 06:02:07	96.14	9833
069 07:47:00	69.79	9834
069 09:31:53	43.45	9835
069 11:16:46	17.10	9836
069 13:01:39	-9.24	9837
069 14:46:31	-35.59	9838
069 16:31:24	-61.93	9839
069 18:16:17	-88.28	9840
069 20:01:10	-114.62	9841
069 21:46:02	-140.97	9842
069 23:30:55	-167.32	9843

070 01:15:48	166.34	9844
070 03:00:41	139.99	9845
070 04:45:34	113.65	9846
070 06:30:26	87.30	9847
070 08:15:19	60.96	9848
070 10:00:12	34.61	9849
070 11:45:05	8.27	9850
070 13:29:57	-18.08	9851
070 15:14:50	-44.43	9852
070 16:59:43	-70.77	9853
070 18:44:36	-97.12	9854
070 20:29:29	-123.46	9855
070 22:14:21	-149.81	9856
070 23:59:14	-176.15	9857

071 01:44:07	157.50	9858
071 03:29:00	131.16	9859
071 05:13:53	104.81	9860
071 06:58:45	78.46	9861
071 08:43:38	52.12	9862
071 10:28:31	25.78	9863
071 12:13:24	-1.57	9864
071 13:58:16	-26.92	9865
071 15:43:09	-53.26	9866
071 17:28:02	-79.61	9867
071 19:12:55	-105.95	9868
071 20:57:48	-132.30	9869
071 22:42:40	-158.64	9870

072 00:27:33	175.01	9871
072 02:12:26	148.67	9872
072 03:57:19	122.32	9873
072 05:42:11	95.97	9874
072 07:27:04	69.63	9875
072 09:11:57	43.28	9876
072 10:56:50	16.94	9877
072 12:41:43	-9.41	9878
072 14:26:35	-35.75	9879
072 16:11:28	-62.10	9880
072 17:56:21	-88.44	9881
072 19:41:14	-114.79	9882
072 21:26:06	-141.14	9883
072 23:10:59	-167.48	9884

Satellite 3

TIME (GMT) day hr mn sc	E. LONG. deg. dg	ORBIT
069 00:58:10	-141.24	3586
069 02:43:06	-167.60	3587
069 04:28:02	-166.05	3588
069 06:12:58	-139.69	3589
069 07:57:54	-113.33	3590
069 09:42:50	-86.97	3591
069 11:27:46	-60.61	3592
069 13:12:41	-34.25	3593
069 14:57:37	-7.90	3594
069 16:42:33	-18.46	3595
069 18:27:29	-44.82	3596
069 20:12:25	-71.18	3597
069 21:57:21	-97.54	3598
069 23:42:17	-123.89	3599

070 01:27:12	-150.25	3600
070 03:12:08	-176.61	3601
070 04:57:04	-157.03	3602
070 06:42:00	-130.67	3603
070 08:26:56	-104.31	3604
070 10:11:52	-77.96	3605
070 11:56:48	-51.60	3606
070 13:41:43	-25.24	3607
070 15:26:39	-1.12	3608
070 17:11:35	-27.48	3609
070 18:56:31	-53.84	3610
070 20:41:27	-80.19	3611
070 22:26:23	-106.55	3612

071 00:11:19	-132.91	3613
071 01:56:14	-159.27	3614
071 03:41:10	-174.37	3615
071 05:26:06	-148.01	3616
071 07:11:02	-121.66	3617
071 08:55:58	-95.30	3618
071 10:40:54	-68.94	3619
071 12:25:50	-42.58	3620
071 14:10:45	-16.22	3621
071 15:55:41	-10.14	3622
071 17:40:37	-36.49	3623
071 19:25:33	-62.85	3624
071 21:10:29	-89.21	3625
071 22:55:25	-115.57	3626

072 00:40:21	-141.92	3627
072 02:25:16	-168.29	3628
072 04:10:12	-165.36	3629
072 05:55:08	-139.00	3630
072 07:40:04	-112.64	3631
072 09:25:00	-86.28	3632
072 11:09:56	-59.93	3633
072 12:54:52	-33.57	3634
072 14:39:48	-7.21	3635
072 16:24:43	-19.15	3636
072 18:09:39	-45.51	3637
072 19:54:35	-71.87	3638
072 21:39:31	-98.22	3639
072 23:24:27	-124.58	3640

West longitude is negative (—)

ORIGINAL PAGE IS

OF POOR QUALITY

Satellite 1

Satellite 2

Satellite 3

TIME (GMT)			E. LONG.	ORBIT	TIME (GMT)			E. LONG.	ORBIT	TIME (GMT)			E. LONG.	ORBIT			
day	hr	mn	sec	deg.dg		day	hr	mn	sec	deg.dg		day	hr	mn	sec	deg.dg	
073	00	56	25	82.58	13507	073	00	55	52	166.17	9885	073	01	09	23	-150.94	3641
073	02	41	46	56.12	13508	073	02	40	45	139.83	9886	073	02	54	19	-177.30	3642
073	04	27	08	29.65	13509	073	04	25	38	113.48	9887	073	04	39	14	156.34	3643
073	06	12	29	3.19	13510	073	06	10	30	87.14	9888	073	06	24	10	129.98	3644
073	07	57	50	-23.28	13511	073	07	55	23	60.79	9889	073	08	09	06	103.63	3645
073	09	43	11	-49.74	13512	073	09	40	16	34.45	9890	073	09	54	02	77.27	3646
073	11	28	33	-76.20	13513	073	11	25	09	9.10	9891	073	11	38	58	50.91	3647
073	13	13	54	-102.67	13514	073	13	10	01	-18.25	9892	073	13	23	54	24.55	3648
073	14	59	15	-129.13	13515	073	14	54	54	-44.59	9893	073	15	08	50	-1.81	3649
073	16	44	36	-155.60	13516	073	16	39	47	-70.94	9894	073	16	53	45	-28.17	3650
073	18	29	58	177.94	13517	073	18	24	40	-97.28	9895	073	18	38	41	-54.52	3651
073	20	15	19	151.47	13518	073	20	09	33	-123.63	9896	073	20	23	37	-80.88	3652
073	22	00	40	125.01	13519	073	21	54	25	-149.97	9897	073	22	08	33	-107.24	3653
073	23	46	01	98.55	13520	073	23	39	18	-176.32	9898	073	23	53	29	-133.60	3654
074	01	31	23	72.08	13521	074	01	24	11	157.34	9899	074	01	38	25	-159.96	3655
074	03	16	44	45.62	13522	074	03	09	04	130.99	9900	074	03	23	21	173.69	3656
074	05	02	05	19.15	13523	074	04	53	56	104.64	9901	074	05	08	16	147.33	3657
074	06	47	26	-7.31	13524	074	06	38	49	78.30	9902	074	06	53	12	120.97	3658
074	08	32	48	-33.77	13525	074	08	23	42	51.95	9903	074	08	38	08	94.61	3659
074	10	18	09	-60.24	13526	074	10	08	35	25.61	9904	074	10	23	04	68.25	3660
074	12	03	30	-86.70	13527	074	11	53	28	-7.74	9905	074	12	08	00	41.89	3661
074	13	48	51	-113.17	13528	074	13	38	20	-27.08	9906	074	13	52	56	15.54	3662
074	15	34	13	-139.63	13529	074	15	23	13	-53.43	9907	074	15	37	52	-10.82	3663
074	17	19	34	-166.10	13530	074	17	08	06	-99.77	9908	074	17	22	47	-37.18	3664
074	19	04	55	167.44	13531	074	18	52	59	-106.12	9909	074	19	07	43	-63.54	3665
074	20	50	16	140.97	13532	074	20	37	51	-132.47	9910	074	20	52	39	-89.90	3666
074	22	35	38	114.51	13533	074	22	22	44	-158.81	9911	074	22	37	35	-116.26	3667
075	00	20	59	88.05	13534	075	00	07	37	174.84	9912	075	00	22	31	-142.61	3668
075	02	06	20	61.58	13535	075	01	52	30	148.50	9913	075	02	07	27	-168.97	3669
075	03	51	41	35.12	13536	075	03	37	23	122.15	9914	075	03	52	23	164.67	3670
075	05	37	02	8.65	13537	075	05	22	15	95.81	9915	075	05	37	18	138.31	3671
075	07	22	24	-17.81	13538	075	07	07	08	69.46	9916	075	07	22	14	111.95	3672
075	09	07	45	-44.27	13539	075	08	52	01	43.12	9917	075	09	07	10	85.59	3673
075	10	53	06	-70.74	13540	075	10	36	54	16.77	9918	075	10	52	06	59.24	3674
075	12	38	27	-97.20	13541	075	12	21	46	-9.58	9919	075	12	37	02	32.88	3675
075	14	23	49	-123.67	13542	075	14	06	39	-35.92	9920	075	14	21	58	6.52	3676
075	16	09	10	-150.13	13543	075	15	51	32	-62.26	9921	075	16	06	54	-19.84	3677
075	17	54	31	-176.60	13544	075	17	36	25	-88.61	9922	075	17	51	50	-46.20	3678
075	19	39	52	156.94	13545	075	19	21	17	-114.96	9923	075	19	36	45	-72.56	3679
075	21	25	14	130.48	13546	075	21	06	10	-141.30	9924	075	21	21	41	-98.91	3680
075	23	10	35	104.01	13547	075	22	51	03	-167.65	9925	075	23	06	37	-125.27	3681
076	00	55	56	77.55	13548	076	00	35	56	166.01	9926	076	00	51	33	-151.63	3682
076	02	41	17	51.08	13549	076	02	20	49	139.66	9927	076	02	36	29	-177.99	3683
076	04	26	39	24.62	13550	076	04	05	41	113.32	9928	076	04	21	25	155.65	3684
076	06	12	00	-1.85	13551	076	05	50	34	86.97	9929	076	06	06	21	129.30	3685
076	07	57	21	-28.31	13552	076	07	35	27	60.63	9930	076	07	51	16	102.94	3686
076	09	42	42	-54.77	13553	076	09	20	26	34.28	9931	076	09	36	12	76.58	3687
076	11	28	04	-81.24	13554	076	11	05	12	7.93	9932	076	11	21	08	50.22	3688
076	13	13	25	-107.70	13555	076	12	50	05	-18.41	9933	076	13	06	04	23.86	3689
076	14	58	46	-134.17	13556	076	14	34	58	-44.76	9934	076	14	51	00	-2.50	3690
076	16	44	07	-160.63	13557	076	16	19	51	-71.10	9935	076	16	35	56	-28.85	3691
076	18	29	29	172.91	13558	076	18	04	44	-97.45	9936	076	18	20	52	-55.21	3692
076	20	14	50	146.44	13559	076	19	49	36	-123.79	9937	076	20	05	47	-81.57	3693
076	22	00	11	119.98	13560	076	21	34	29	-150.14	9938	076	21	50	43	-107.93	3694
076	23	45	32	93.51	13561	076	23	19	22	-176.48	9939	076	23	35	39	-134.29	3695

West longitude is negative (—)

Satellite 1

Satellite 2

Satellite 3

TIME (GMT) E. LONG. ORBIT
day hr mn sc deg.dg

077 01:30:54 87.05 13562
077 03:16:15 40.58 13563
077 05:01:36 14.12 13564
077 06:46:57 -12.35 13565
077 08:32:19 -38.81 13566
077 10:17:40 -65.27 13567
077 12:03:01 -91.74 13568
077 13:48:22 -118.20 13569
077 15:33:43 -144.67 13570
077 17:19:05 -171.13 13571
077 19:04:26 -162.41 13572
077 20:49:47 135.94 13573
077 22:35:08 109.48 13574

078 00:20:30 83.01 13575
078 02:05:51 56.55 13576
078 03:51:12 30.08 13577
078 05:36:33 3.62 13578
078 07:21:55 -22.84 13579
078 09:07:16 -49.31 13580
078 10:52:37 -75.77 13581
078 12:37:58 -102.24 13582
078 14:23:20 -128.70 13583
078 16:08:41 -155.16 13584
078 17:54:02 178.37 13585
078 19:39:23 151.91 13586
078 21:24:45 125.44 13587
078 23:10:06 98.98 13588

079 00:55:27 72.51 13589
079 02:40:48 46.05 13590
079 04:26:10 19.59 13591
079 06:11:31 -6.88 13592
079 07:56:52 -33.34 13593
079 09:42:13 -59.81 13594
079 11:27:35 -86.27 13595
079 13:12:56 -112.74 13596
079 14:58:17 -139.20 13597
079 16:43:38 -165.67 13598
079 18:29:00 167.87 13599
079 20:14:21 141.41 13600
079 21:59:42 114.94 13601
079 23:45:03 88.48 13602

080 01:30:24 62.01 13603
080 03:15:46 35.55 13604
080 05:01:07 9.09 13605
080 06:46:28 -17.38 13606
080 08:31:49 -43.84 13607
080 10:17:11 -70.31 13608
080 12:02:32 -96.77 13609
080 13:47:53 -123.24 13610
080 15:33:14 -149.70 13611
080 17:18:36 -176.16 13612
080 19:03:57 157.37 13613
080 20:49:18 130.91 13614
080 22:34:39 104.44 13615

TIME (GMT) E. LONG. ORBIT
day hr mn sc deg.dg

077 01:04:15 157.17 9940
077 02:49:07 130.82 9941
077 04:34:00 104.48 9942
077 06:18:53 78.13 9943
077 08:03:46 51.79 9944
077 09:48:38 25.44 9945
077 11:33:31 - 90 9946
077 13:18:24 -27.25 9947
077 15:03:17 -53.59 9948
077 16:48:10 -79.94 9949
077 18:33:02 -106.29 9950
077 20:17:55 -132.63 9951
077 22:02:48 -158.98 9952
077 23:47:41 174.68 9953

078 01:32:33 148.33 9954
078 03:17:26 121.99 9955
078 05:02:19 95.64 9956
078 06:47:12 69.30 9957
078 08:32:05 42.95 9958
078 10:16:57 16.61 9959
078 12:01:50 -9.74 9960
078 13:46:43 -36.08 9961
078 15:31:36 -62.43 9962
078 17:16:28 -88.78 9963
078 19:01:21 -115.12 9964
078 20:46:14 -141.47 9965
078 22:31:07 -167.81 9966

079 00:15:59 165.84 9967
079 02:00:52 139.50 9968
079 03:45:45 113.15 9969
079 05:30:38 86.81 9970
079 07:15:31 60.46 9971
079 09:00:23 34.11 9972
079 10:45:16 7.77 9973
079 12:30:09 -18.58 9974
079 14:15:02 -44.92 9975
079 15:59:54 -71.27 9976
079 17:44:47 -97.61 9977
079 19:29:40 -123.96 9978
079 21:14:33 -150.30 9979
079 22:59:25 -176.65 9980

080 00:44:18 157.01 9981
080 02:29:11 130.66 9982
080 04:14:04 104.32 9983
080 05:58:57 77.97 9984
080 07:43:49 51.62 9985
080 09:28:42 25.28 9986
080 11:13:35 -1.07 9987
080 12:58:28 -27.41 9988
080 14:43:20 -53.76 9989
080 16:28:13 -80.10 9990
080 18:13:06 -106.45 9991
080 19:57:59 -132.79 9992
080 21:42:51 -159.14 9993
080 23:27:44 174.51 9994

TIME (GMT) E. LONG. ORBIT
day hr mn sc deg.dg

077 01:20:35 -160.65 3696
077 03:05:31 173.00 3697
077 04:50:27 146.64 3698
077 06:35:23 120.28 3699
077 08:20:19 93.92 3700
077 10:05:14 67.56 3701
077 11:50:10 41.20 3702
077 13:35:06 14.85 3703
077 15:20:02 -11.51 3704
077 17:04:58 -37.87 3705
077 18:49:54 -64.23 3706
077 20:34:50 -90.58 3707
077 22:19:45 -116.95 3708

078 00:04:41 -143.30 3709
078 01:49:37 -169.66 3710
078 03:34:33 163.98 3711
078 05:19:29 137.62 3712
078 07:04:25 111.26 3713
078 08:49:21 84.91 3714
078 10:34:16 58.55 3715
078 12:19:12 32.19 3716
078 14:04:08 5.83 3717
078 15:49:04 -20.53 3718
078 17:34:00 -46.89 3719
078 19:18:56 -73.24 3720
078 21:03:52 -99.60 3721
078 22:48:48 -125.96 3722

079 00:33:43 -152.32 3723
079 02:18:39 -178.68 3724
079 04:03:35 154.96 3725
079 05:48:31 128.61 3726
079 07:33:27 102.25 3727
079 09:18:23 75.89 3728
079 11:03:19 49.53 3729
079 12:48:14 23.17 3730
079 14:33:10 -3.19 3731
079 16:18:06 -29.54 3732
079 18:03:02 -55.90 3733
079 19:47:58 -82.26 3734
079 21:32:54 -108.62 3735
079 23:17:50 -134.98 3736

080 01:02:46 -161.33 3737
080 02:47:41 172.31 3738
080 04:32:37 145.95 3739
080 06:17:33 119.59 3740
080 08:02:29 93.23 3741
080 09:47:25 66.87 3742
080 11:32:21 40.52 3743
080 13:17:17 14.16 3744
080 15:02:12 -12.20 3745
080 16:47:08 -38.56 3746
080 18:32:04 -64.92 3747
080 20:17:00 -91.28 3748
080 22:01:56 -117.63 3749
080 23:46:52 -143.99 3750

West longitude is negative (—)

Satellite 1			Satellite 2			Satellite 3		
TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg.dg		day hr mn sc	deg.dg		day hr mn sc	deg.dg	
081 00:20:01	77.98	13616	081 01:12:37	148.17	9995	081 01:31:48	-170.35	3751
081 02:05:22	51.52	13617	081 02:57:30	121.82	9996	081 03:16:44	163.29	3752
081 03:50:43	25.05	13618	081 04:42:23	95.48	9997	081 05:01:39	136.93	3753
081 05:36:04	-1.41	13619	081 06:27:15	69.13	9998	081 06:46:35	110.57	3754
081 07:21:26	-27.88	13620	081 08:12:08	42.79	9999	081 08:31:31	84.22	3755
081 09:06:47	-54.34	13621	081 09:57:01	16.44	10000	081 10:16:27	57.86	3756
081 10:52:08	-80.81	13622	081 11:41:54	-9.90	10001	081 12:01:23	31.50	3757
081 12:37:29	-107.27	13623	081 13:26:46	-36.25	10002	081 13:46:19	5.14	3758
081 14:22:51	-133.73	13624	081 15:11:39	-62.60	10003	081 15:31:15	-21.22	3759
081 16:08:12	-160.20	13625	081 16:56:32	-88.94	10004	081 17:16:10	-47.58	3760
081 17:53:33	-173.34	13626	081 18:41:25	-115.28	10005	081 19:01:06	-73.93	3761
081 19:38:54	-146.87	13627	081 20:26:17	-141.63	10006	081 20:46:02	-100.29	3762
081 21:24:15	-120.41	13628	081 22:11:10	-167.98	10007	081 22:30:58	-126.65	3763
081 23:09:37	93.95	13629	081 23:56:03	165.68	10008			
082 00:54:58	67.48	13630	082 01:40:56	139.33	10009	082 00:15:54	-153.01	3764
082 02:40:19	41.02	13631	082 03:25:48	112.99	10010	082 02:00:50	-179.37	3765
082 04:25:40	14.55	13632	082 05:10:41	86.64	10011	082 03:45:46	154.28	3766
082 06:11:02	-11.91	13633	082 06:55:34	60.30	10012	082 05:30:42	127.92	3767
082 07:56:23	-38.38	13634	082 08:40:27	33.95	10013	082 07:15:37	101.56	3768
082 09:41:44	-64.84	13635	082 10:25:20	7.61	10014	082 09:00:33	75.20	3769
082 11:27:05	-91.31	13636	082 12:10:12	-18.74	10015	082 10:45:29	48.84	3770
082 13:12:27	-117.77	13637	082 13:55:05	-45.09	10016	082 12:30:25	22.48	3771
082 14:57:48	-144.23	13638	082 15:39:58	-71.43	10017	082 14:15:21	-3.87	3772
082 16:43:09	-170.70	13639	082 17:24:51	-97.78	10018	082 16:00:17	-30.23	3773
082 18:28:30	-162.84	13640	082 19:09:43	-124.12	10019	082 17:45:13	-56.59	3774
082 20:13:52	-136.38	13641	082 20:54:36	-150.47	10020	082 19:30:09	-82.95	3775
082 21:59:13	-109.91	13642	082 22:39:29	-176.81	10021	082 21:15:04	-109.31	3776
082 23:44:34	83.45	13643				082 23:00:00	-135.67	3777
083 01:29:55	56.98	13644	083 00:24:22	156.84	10022	083 00:44:56	-162.02	3778
083 03:15:17	30.52	13645	083 02:09:14	130.49	10023	083 02:29:52	171.62	3779
083 05:00:38	4.05	13646	083 03:54:07	104.15	10024	083 04:14:48	145.26	3780
083 06:45:59	-22.41	13647	083 05:39:00	77.81	10025	083 05:59:44	118.90	3781
083 08:31:20	-48.88	13648	083 07:23:53	51.46	10026	083 07:44:40	92.54	3782
083 10:16:42	-75.34	13649	083 09:08:45	25.11	10027	083 09:29:35	66.18	3783
083 12:02:03	-101.80	13650	083 10:53:38	-1.23	10028	083 11:14:31	39.83	3784
083 13:47:24	-128.27	13651	083 12:38:31	-27.58	10029	083 12:59:27	13.47	3785
083 15:32:45	-154.73	13652	083 14:23:24	-53.92	10030	083 14:44:23	-12.89	3786
083 17:18:07	-178.80	13653	083 16:08:17	-80.27	10031	083 16:29:19	-39.25	3787
083 19:03:28	-152.34	13654	083 17:53:09	-106.61	10032	083 18:14:15	-65.61	3788
083 20:48:49	-125.88	13655	083 19:38:02	-132.96	10033	083 19:59:11	-91.96	3789
083 22:34:10	99.41	13656	083 21:22:55	-159.30	10034	083 21:44:07	-118.32	3790
			083 23:07:48	174.35	10035	083 23:29:02	-144.68	3791
084 00:19:31	72.95	13657	084 00:52:40	148.00	10036	084 01:13:58	-171.04	3792
084 02:04:53	46.48	13658	084 02:37:33	121.66	10037	084 02:58:54	162.60	3793
084 03:50:14	20.02	13659	084 04:22:26	95.31	10038	084 04:43:50	136.24	3794
084 05:35:35	-6.45	13660	084 06:07:19	68.97	10039	084 06:28:46	109.89	3795
084 07:20:56	-32.91	13661	084 07:52:11	42.62	10040	084 08:13:42	83.53	3796
084 09:06:18	-59.37	13662	084 09:37:04	16.28	10041	084 09:58:38	57.17	3797
084 10:51:39	-85.84	13663	084 11:21:57	-10.07	10042	084 11:43:34	30.81	3798
084 12:37:00	-112.30	13664	084 13:06:50	-36.41	10043	084 13:28:29	4.45	3799
084 14:22:21	-138.77	13665	084 14:51:42	-62.76	10044	084 15:13:25	-21.91	3800
084 16:07:43	-165.23	13666	084 16:36:35	-89.10	10045	084 16:58:21	-48.26	3801
084 17:53:04	-168.30	13667	084 18:21:28	-115.45	10046	084 18:43:17	-74.62	3802
084 19:38:25	-141.84	13668	084 20:06:21	-141.79	10047	084 20:28:13	-100.98	3803
084 21:23:46	-115.38	13669	084 21:51:14	-168.14	10048	084 22:13:09	-127.34	3804
084 23:09:08	88.91	13670	084 23:36:06	165.51	10049	084 23:58:05	-153.70	3805

West longitude is negative (—)

Satellite 1			Satellite 2			Satellite 3		
TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg.dg		day hr mn sc	deg.dg		day hr mn sc	deg.dg	
085 00:54:29	62.45	13671	085 01:20:59	139.17	10050	085 01:43:00	179.94	3806
085 02:39:50	35.98	13672	085 03:05:52	112.82	10051	085 03:27:56	153.58	3807
085 04:25:11	9.52	13673	085 04:50:45	86.48	10052	085 05:12:52	127.23	3808
085 06:10:33	-16.94	13674	085 06:35:37	60.13	10053	085 06:57:48	100.87	3809
085 07:55:54	-43.41	13675	085 08:20:30	33.79	10054	085 08:42:44	74.51	3810
085 09:41:15	-69.87	13676	085 10:05:23	7.44	10055	085 10:27:40	48.15	3811
085 11:26:36	-96.34	13677	085 11:50:16	-18.90	10056	085 12:12:36	21.80	3812
085 13:11:57	-122.80	13678	085 13:35:08	-45.25	10057	085 13:57:32	-4.56	3813
085 14:57:19	-149.27	13679	085 15:20:01	-71.60	10058	085 15:42:27	-30.92	3814
085 16:42:40	-175.73	13680	085 17:04:54	-97.94	10059	085 17:27:23	-57.28	3815
085 18:28:01	-157.80	13681	085 18:49:47	-124.28	10060	085 19:12:19	-83.64	3816
085 20:13:22	-131.34	13682	085 20:34:39	-150.63	10061	085 20:57:15	-110.00	3817
085 21:58:44	-104.88	13683	085 22:19:32	-176.98	10062	085 22:42:11	-136.36	3818
085 23:44:05	-78.41	13684						
086 01:29:26	51.95	13685	086 00:04:25	156.68	10063	086 00:27:07	-162.71	3819
086 03:14:47	25.48	13686	086 01:49:18	130.33	10064	086 02:12:03	-170.93	3820
086 05:00:09	-9.98	13687	086 03:34:11	103.99	10065	086 03:56:59	-144.57	3821
086 06:45:30	-27.44	13688	086 05:19:03	77.64	10066	086 05:41:54	-118.21	3822
086 08:30:51	-53.91	13689	086 07:03:56	51.30	10067	086 07:26:50	-91.85	3823
086 10:16:12	-80.37	13690	086 08:48:49	24.95	10068	086 09:11:46	-65.49	3824
086 12:01:34	-106.84	13691	086 10:33:42	-1.39	10069	086 10:56:42	-39.14	3825
086 13:46:55	-133.30	13692	086 12:18:34	-27.74	10070	086 12:41:38	-12.78	3826
086 15:32:16	-159.77	13693	086 14:03:27	-54.09	10071	086 14:26:34	-13.58	3827
086 17:17:37	-173.77	13694	086 15:48:20	-80.43	10072	086 16:11:30	-39.94	3828
086 19:02:59	-147.31	13695	086 17:33:13	-106.78	10073	086 17:56:26	-66.30	3829
086 20:48:20	-120.84	13696	086 19:18:05	-133.12	10074	086 19:41:21	-92.66	3830
086 22:33:41	-94.38	13697	086 21:02:58	-159.47	10075	086 21:26:17	-119.01	3831
			086 22:47:51	-174.19	10076	086 23:11:13	-145.37	3832
087 00:19:02	67.91	13698	087 00:32:44	147.84	10077	087 00:56:09	-171.73	3833
087 02:04:24	41.45	13699	087 02:17:36	121.49	10078	087 02:41:05	-161.91	3834
087 03:49:45	14.99	13700	087 04:02:29	95.15	10079	087 04:26:01	-135.55	3835
087 05:35:06	-11.48	13701	087 05:47:22	68.81	10080	087 06:10:57	-109.20	3836
087 07:20:27	-37.94	13702	087 07:32:15	42.46	10081	087 07:55:53	-82.84	3837
087 09:05:48	-64.41	13703	087 09:17:07	16.11	10082	087 09:40:48	-56.48	3838
087 10:51:10	-90.87	13704	087 11:02:00	-10.23	10083	087 11:25:44	-30.12	3839
087 12:36:31	-117.34	13705	087 12:46:53	-36.58	10084	087 13:10:40	-3.76	3840
087 14:21:52	-143.80	13706	087 14:31:46	-62.92	10085	087 14:55:36	-22.60	3841
087 16:07:13	-170.27	13707	087 16:16:38	-89.27	10086	087 16:40:32	-48.95	3842
087 17:52:35	-163.27	13708	087 18:01:31	-115.61	10087	087 18:25:28	-75.31	3843
087 19:37:56	-136.81	13709	087 19:46:24	-141.96	10088	087 20:10:24	-101.67	3844
087 21:23:17	-110.34	13710	087 21:31:17	-168.30	10089	087 21:55:19	-128.03	3845
087 23:08:38	-83.88	13711	087 23:16:10	-165.35	10090	087 23:40:15	-154.39	3846
088 00:54:00	57.42	13712	088 01:01:02	139.00	10091	088 01:25:11	179.25	3847
088 02:39:21	30.95	13713	088 02:45:55	112.66	10092	088 03:10:07	152.90	3848
088 04:24:42	4.49	13714	088 04:30:48	86.31	10093	088 04:55:03	126.54	3849
088 06:10:03	-21.98	13715	088 06:15:41	59.97	10094	088 06:39:59	100.18	3850
088 07:55:25	-48.44	13716	088 08:00:33	33.62	10095	088 08:24:55	73.82	3851
088 09:40:46	-74.91	13717	088 09:45:26	7.28	10096	088 10:09:51	47.46	3852
088 11:26:07	-101.37	13718	088 11:30:19	-19.07	10097	088 11:54:46	21.10	3853
088 13:11:28	-127.84	13719	088 13:15:12	-45.41	10098	088 13:39:42	-5.26	3854
088 14:56:50	-154.30	13720	088 15:00:04	-71.76	10099	088 15:24:38	-31.61	3855
088 16:42:11	-179.24	13721	088 16:44:57	-98.10	10100	088 17:09:34	-57.97	3856
088 18:27:32	-152.77	13722	088 18:29:50	-124.45	10101	088 18:54:30	-84.33	3857
088 20:12:53	-126.31	13723	088 20:14:43	-150.79	10102	088 20:39:26	-110.69	3858
088 21:58:14	-99.84	13724	088 21:59:35	-177.14	10103	088 22:24:22	-137.04	3859
088 23:43:36	-73.38	13725	088 23:44:28	-156.51	10104			

West longitude is negative (—)

ORIGINAL PAGE IS
OF POOR QUALITY

Satellite 1			Satellite 2			Satellite 3		
TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg.dg		day hr mn sc	deg.dg		day hr mn sc	deg.dg	
089 01:28:57	46.92	13726	089 01:29:21	130.17	10105	089 00:09:18	-163.40	3860
089 03:14:18	20.45	13727	089 03:14:14	103.82	10106	089 01:54:13	170.24	3861
089 04:59:39	-6.01	13728	089 04:59:06	77.48	10107	089 03:39:09	143.88	3862
089 06:45:01	-32.48	13729	089 06:43:59	51.13	10108	089 05:24:05	117.52	3863
089 08:30:22	-58.94	13730	089 08:28:52	24.79	10109	089 07:09:01	91.16	3864
089 10:15:43	-85.41	13731	089 10:13:45	-1.56	10110	089 08:53:57	64.80	3865
089 12:01:04	-111.87	13732	089 11:58:37	-27.90	10111	089 10:38:53	38.45	3866
089 13:46:26	-138.33	13733	089 13:43:30	-54.25	10112	089 12:23:49	12.09	3867
089 15:31:47	-164.80	13734	089 15:28:23	-80.59	10113	089 14:08:45	-14.27	3868
089 17:17:08	168.74	13735	089 17:13:16	-106.94	10114	089 15:53:40	-40.63	3869
089 19:02:29	142.27	13736	089 18:58:09	-133.28	10115	089 17:38:36	-66.99	3870
089 20:47:51	115.81	13737	089 20:43:01	-159.63	10116	089 19:23:32	-93.35	3871
089 22:33:12	89.35	13738	089 22:27:54	174.02	10117	089 21:08:28	-119.70	3872
						089 22:53:24	-146.06	3873
090 00:18:33	62.88	13739	090 00:12:47	147.68	10118	090 00:38:20	-172.42	3874
090 02:03:54	36.42	13740	090 01:57:40	121.33	10119	090 02:23:16	161.22	3875
090 03:49:16	9.95	13741	090 03:42:32	94.99	10120	090 04:08:12	134.86	3876
090 05:34:37	-16.51	13742	090 05:27:25	68.64	10121	090 05:53:07	108.50	3877
090 07:19:58	-42.98	13743	090 07:12:18	42.30	10122	090 07:38:03	82.15	3878
090 09:05:19	-69.44	13744	090 08:57:11	15.95	10123	090 09:22:59	55.79	3879
090 10:50:40	-95.91	13745	090 10:42:03	-10.40	10124	090 11:07:55	29.43	3880
090 12:36:02	-122.37	13746	090 12:26:56	-36.74	10125	090 12:52:51	3.07	3881
090 14:21:23	-148.83	13747	090 14:11:49	-63.08	10126	090 14:37:47	-23.29	3882
090 16:06:44	-175.30	13748	090 15:56:42	-89.43	10127	090 16:22:43	-49.64	3883
090 17:52:05	158.24	13749	090 17:41:34	-115.78	10128	090 18:07:39	-76.00	3884
090 19:37:27	131.78	13750	090 19:26:27	-142.12	10129	090 19:52:34	-102.36	3885
090 21:22:48	105.31	13751	090 21:11:20	-168.47	10130	090 21:37:30	-128.72	3886
090 23:08:09	78.65	13752	090 22:56:13	165.19	10131	090 23:22:26	-155.08	3887
091 00:53:30	52.38	13753	091 00:41:05	138.84	10132	091 01:07:22	178.56	3888
091 02:38:52	25.92	13754	091 02:25:58	112.50	10133	091 02:52:18	152.21	3889
091 04:24:13	-	13755	091 04:10:51	86.15	10134	091 04:37:14	125.85	3890
091 06:09:34	-27.01	13756	091 05:55:44	59.81	10135	091 06:22:10	99.49	3891
091 07:54:55	-53.48	13757	091 07:40:36	33.46	10136	091 08:07:06	73.13	3892
091 09:40:17	-79.94	13758	091 09:25:29	7.11	10137	091 09:52:01	46.77	3893
091 11:25:38	-106.40	13759	091 11:10:22	-19.23	10138	091 11:36:57	20.41	3894
091 13:10:59	-132.87	13760	091 12:55:15	-45.57	10139	091 13:21:53	-5.95	3895
091 14:56:20	-159.33	13761	091 14:40:07	-71.92	10140	091 15:06:49	-32.30	3896
091 16:41:42	174.20	13762	091 16:25:00	-98.27	10141	091 16:51:45	-58.66	3897
091 18:27:03	147.74	13763	091 18:09:53	-124.61	10142	091 18:36:41	-85.02	3898
091 20:12:24	121.28	13764	091 19:54:46	-150.96	10143	091 20:21:37	-111.38	3899
091 21:57:45	94.81	13765	091 21:39:38	-177.30	10144	091 22:06:33	-137.74	3900
091 23:43:07	68.35	13766	091 23:24:31	156.35	10145	091 23:51:28	-164.10	3901
092 01:28:28	41.88	13767	092 01:09:24	130.01	10146	092 01:36:24	169.55	3902
092 03:13:49	15.42	13768	092 02:54:17	103.66	10147	092 03:21:20	143.19	3903
092 04:59:10	-11.05	13769	092 04:39:10	77.32	10148	092 05:06:16	116.83	3904
092 06:44:31	-37.51	13770	092 06:24:02	50.97	10149	092 06:51:12	90.47	3905
092 08:29:53	-63.97	13771	092 08:08:55	24.62	10150	092 08:36:08	64.11	3906
092 10:15:14	-90.44	13772	092 09:53:48	-1.72	10151	092 10:21:04	37.76	3907
092 12:00:35	-116.90	13773	092 11:38:41	-28.06	10152	092 12:06:00	11.40	3908
092 13:45:56	-143.37	13774	092 13:23:33	-54.41	10153	092 13:50:55	-14.96	3909
092 15:31:18	-169.83	13775	092 15:08:26	-80.76	10154	092 15:35:51	-41.32	3910
092 17:16:39	163.70	13776	092 16:53:19	-107.10	10155	092 17:20:47	-67.68	3911
092 19:02:00	137.24	13777	092 18:38:12	-133.45	10156	092 19:05:43	-94.04	3912
092 20:47:21	110.77	13778	092 20:23:04	-159.79	10157	092 20:50:39	-120.39	3913
092 22:32:43	84.31	13779	092 22:07:57	173.86	10158	092 22:35:35	-146.75	3914
			092 23:52:50	147.52	10159			

West longitude is negative (-)

Satellite 1

TIME (GMT) day hr mn sc	E. LONG. deg.dg	ORBIT
093 00:18:04	57.85	13780
093 02:03:25	31.38	13781
093 03:48:46	4.92	13782
093 05:34:08	-21.54	13783
093 07:19:29	-48.01	13784
093 09:04:50	-74.47	13785
093 10:50:11	-100.94	13786
093 12:35:33	-127.40	13787
093 14:20:54	-153.87	13788
093 16:06:15	-179.67	13789
093 17:51:36	-153.20	13790
093 19:36:57	-126.74	13791
093 21:22:19	-100.28	13792
093 23:07:40	-73.81	13793

094 00:53:01	47.35	13794
094 02:38:22	20.88	13795
094 04:23:44	-5.58	13796
094 06:09:05	-32.04	13797
094 07:54:26	-58.51	13798
094 09:39:47	-84.97	13799
094 11:25:09	-111.44	13800
094 13:10:30	-137.90	13801
094 14:55:51	-164.37	13802
094 16:41:12	-169.17	13803
094 18:26:34	-142.71	13804
094 20:11:55	-116.24	13805
094 21:57:16	-89.78	13806
094 23:42:37	-63.31	13807

095 01:27:59	36.85	13808
095 03:13:20	10.39	13809
095 04:58:41	-16.08	13810
095 06:44:02	-42.54	13811
095 08:29:24	-69.01	13812
095 10:14:45	-95.47	13813
095 12:00:06	-121.94	13814
095 13:45:27	-148.40	13815
095 15:30:48	-174.87	13816
095 17:16:10	-158.67	13817
095 19:01:31	-132.21	13818
095 20:46:52	-105.74	13819
095 22:32:13	-79.28	13820

096 00:17:35	52.82	13821
096 02:02:56	26.35	13822
096 03:48:17	-1.11	13823
096 05:33:38	-26.58	13824
096 07:19:00	-53.04	13825
096 09:04:21	-79.51	13826
096 10:49:42	-105.97	13827
096 12:35:03	-132.44	13828
096 14:20:25	-158.90	13829
096 16:05:46	-174.64	13830
096 17:51:07	-148.17	13831
096 19:36:28	-121.71	13832
096 21:21:50	-95.25	13833
096 23:07:11	-68.78	13834

Satellite 2

TIME (GMT) day hr mn sc	E. LONG. deg.dg	ORBIT
093 01:37:43	121.17	10160
093 03:22:35	94.82	10161
093 05:07:28	68.48	10162
093 06:52:21	42.13	10163
093 08:37:14	15.79	10164
093 10:22:06	-10.56	10165
093 12:06:59	-36.90	10166
093 13:51:52	-63.25	10167
093 15:36:45	-89.59	10168
093 17:21:37	-115.94	10169
093 19:06:30	-142.28	10170
093 20:51:23	-168.63	10171
093 22:36:16	-165.03	10172

094 00:21:08	138.68	10173
094 02:06:01	112.33	10174
094 03:50:54	85.99	10175
094 05:35:47	59.64	10176
094 07:20:39	33.30	10177
094 09:05:32	6.95	10178
094 10:50:25	-19.39	10179
094 12:35:18	-45.74	10180
094 14:20:10	-72.08	10181
094 16:05:03	-98.43	10182
094 17:49:56	-124.77	10183
094 19:34:49	-151.12	10184
094 21:19:41	-177.47	10185
094 23:04:34	-156.19	10186

095 00:49:27	129.84	10187
095 02:34:20	103.50	10188
095 04:19:12	77.15	10189
095 06:04:05	50.81	10190
095 07:48:58	24.46	10191
095 09:33:51	-1.88	10192
095 11:18:43	-28.23	10193
095 13:03:36	-54.57	10194
095 14:48:29	-80.92	10195
095 16:33:22	-107.26	10196
095 18:18:15	-133.61	10197
095 20:03:07	-159.96	10198
095 21:48:00	-173.70	10199
095 23:32:53	-147.35	10200

096 01:17:46	121.01	10201
096 03:02:38	94.66	10202
096 04:47:31	68.32	10203
096 06:32:24	41.97	10204
096 08:17:17	15.63	10205
096 10:02:09	-10.72	10206
096 11:47:02	-37.06	10207
096 13:31:55	-63.41	10208
096 15:16:48	-89.75	10209
096 17:01:40	-116.10	10210
096 18:46:33	-142.45	10211
096 20:31:26	-168.79	10212
096 22:16:19	-164.86	10213

Satellite 3

TIME (GMT) day hr mn sc	E. LONG. deg.dg	ORBIT
093 00:20:31	-173.11	3915
093 02:05:27	-160.53	3916
093 03:50:22	-134.17	3917
093 05:35:18	-107.81	3918
093 07:20:14	-81.45	3919
093 09:05:10	-55.10	3920
093 10:50:06	-28.74	3921
093 12:35:02	2.38	3922
093 14:19:58	-23.98	3923
093 16:04:54	-50.33	3924
093 17:49:49	-76.70	3925
093 19:34:45	-103.05	3926
093 21:19:41	-129.41	3927
093 23:04:37	-155.77	3928

094 00:49:33	177.87	3929
094 02:34:29	151.51	3930
094 04:19:25	125.16	3931
094 06:04:21	98.80	3932
094 07:49:17	72.44	3933
094 09:34:12	46.08	3934
094 11:19:08	19.72	3935
094 13:04:04	-6.64	3936
094 14:49:00	-32.99	3937
094 16:33:56	-59.35	3938
094 18:18:52	-85.71	3939
094 20:03:48	-112.07	3940
094 21:48:44	-138.43	3941
094 23:33:39	-164.79	3942

095 01:18:35	168.86	3943
095 03:03:31	142.50	3944
095 04:48:27	116.14	3945
095 06:33:23	89.78	3946
095 08:18:19	63.42	3947
095 10:03:15	37.07	3948
095 11:48:11	10.71	3949
095 13:33:06	-15.65	3950
095 15:18:02	-42.01	3951
095 17:02:58	-68.37	3952
095 18:47:54	-94.73	3953
095 20:32:50	-121.09	3954
095 22:17:46	-147.44	3955

096 00:02:42	-173.80	3956
096 01:47:38	-159.84	3957
096 03:32:33	-133.48	3958
096 05:17:29	-107.12	3959
096 07:02:25	-80.76	3960
096 08:47:21	-54.41	3961
096 10:32:17	-28.05	3962
096 12:17:13	-1.69	3963
096 14:02:09	-24.67	3964
096 15:47:05	-51.03	3965
096 17:32:00	-77.39	3966
096 19:16:56	-103.74	3967
096 21:01:52	-130.10	3968
096 22:46:48	-156.46	3969

West longitude is negative (—)

Satellite 1			Satellite 2			Satellite 3		
TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg.dg		day hr mn sc	deg.dg		day hr mn sc	deg.dg	
097 00:52:32	42.32	13835	097 00:01:11	138.52	10214	097 00:31:44	177.18	3976
097 02:37:53	15.85	13836	097 01:46:04	112.17	10215	097 02:16:40	150.82	3971
097 04:23:14	-10.61	13837	097 03:30:57	85.83	10216	097 04:01:36	124.47	3972
097 06:08:36	-37.08	13838	097 05:15:50	59.48	10217	097 05:46:32	98.11	3973
097 07:53:57	-63.54	13839	097 07:00:42	33.14	10218	097 07:31:27	71.75	3974
097 09:39:18	-90.01	13840	097 08:45:35	6.79	10219	097 09:16:23	45.39	3975
097 11:24:39	-116.47	13841	097 10:30:28	-19.55	10220	097 11:01:19	19.03	3976
097 13:10:01	-142.93	13842	097 12:15:21	-45.90	10221	097 12:46:15	-7.33	3977
097 14:55:22	-169.40	13843	097 14:00:13	-72.25	10222	097 14:31:11	-33.69	3978
097 16:40:43	164.14	13844	097 15:45:06	-98.59	10223	097 16:16:07	-60.04	3979
097 18:26:04	137.67	13845	097 17:29:59	-124.94	10224	097 18:01:03	-86.40	3980
097 20:11:26	111.21	13846	097 19:14:52	-151.28	10225	097 19:45:59	-112.76	3981
097 21:56:47	84.75	13847	097 20:59:44	-177.63	10226	097 21:30:55	-139.12	3982
097 23:42:08	58.28	13848	097 22:44:37	156.03	10227	097 23:15:50	-165.48	3983
098 01:27:29	31.82	13849	098 00:29:30	129.68	10228	098 01:00:46	168.16	3984
098 03:12:51	5.35	13850	098 02:14:23	103.34	10229	098 02:45:42	141.81	3985
098 04:58:12	-21.11	13851	098 03:59:15	76.99	10230	098 04:30:38	115.45	3986
098 06:43:33	-47.58	13852	098 05:44:08	50.65	10231	098 06:15:34	89.09	3987
098 08:28:54	-74.04	13853	098 07:29:01	24.30	10232	098 08:00:30	62.73	3988
098 10:14:16	-100.50	13854	098 09:13:54	-2.04	10233	098 09:45:26	36.37	3989
098 11:59:37	-126.97	13855	098 10:58:46	-28.39	10234	098 11:30:22	10.02	3990
098 13:44:58	-153.43	13856	098 12:43:39	-54.74	10235	098 13:15:17	-16.34	3991
098 15:30:19	-179.90	13857	098 14:28:32	-81.08	10236	098 15:00:13	-42.70	3992
098 17:15:41	153.64	13858	098 16:13:25	-107.43	10237	098 16:45:09	-69.06	3993
098 19:01:02	127.18	13859	098 17:58:17	-133.77	10238	098 18:30:05	-95.42	3994
098 20:46:23	100.71	13860	098 19:43:10	-160.12	10239	098 20:15:01	-121.78	3995
098 22:31:44	74.25	13861	098 21:28:03	173.54	10240	098 21:59:57	-148.13	3996
			098 23:12:56	147.19	10241	098 23:44:53	-174.49	3997
099 00:17:05	47.78	13862	099 00:57:48	120.85	10242	099 01:29:49	159.15	3998
099 02:02:27	21.32	13863	099 02:42:41	94.50	10243	099 03:14:44	132.79	3999
099 03:47:48	-5.15	13864	099 04:27:34	68.16	10244	099 04:59:40	106.43	4000
099 05:33:09	-31.61	13865	099 06:12:27	41.81	10245	099 06:44:36	80.07	4001
099 07:18:30	-58.08	13866	099 07:57:19	15.46	10246	099 08:29:32	53.71	4002
099 09:03:52	-84.54	13867	099 09:42:12	-10.88	10247	099 10:14:28	27.36	4003
099 10:49:13	-111.00	13868	099 11:27:05	-37.23	10248	099 11:59:24	1.00	4004
099 12:34:34	-137.47	13869	099 13:11:58	-63.57	10249	099 13:44:20	-25.36	4005
099 14:19:55	-163.93	13870	099 14:56:50	-89.92	10250	099 15:29:16	-51.72	4006
099 16:05:17	169.60	13871	099 16:41:43	-116.26	10251	099 17:14:11	-78.08	4007
099 17:50:38	143.14	13872	099 18:26:36	-142.61	10252	099 18:59:07	-104.44	4008
099 19:35:59	116.67	13873	099 20:11:29	-168.95	10253	099 20:44:03	-130.79	4009
099 21:21:20	90.21	13874	099 21:56:21	164.70	10254	099 22:28:59	-157.15	4010
099 23:06:42	63.75	13875	099 23:41:14	138.36	10255			
100 00:52:03	37.28	13876	100 01:26:07	112.01	10256	100 00:13:55	176.49	4011
100 02:37:24	10.82	13877	100 03:11:00	85.67	10257	100 01:58:51	150.13	4012
100 04:22:45	-15.65	13878	100 04:55:52	59.32	10258	100 03:43:47	123.77	4013
100 06:08:07	-42.11	13879	100 06:40:45	32.97	10259	100 05:28:43	97.42	4014
100 07:53:28	-68.57	13880	100 08:25:38	6.63	10260	100 07:13:39	71.06	4015
100 09:38:49	-95.04	13881	100 10:10:31	-19.72	10261	100 08:58:34	44.70	4016
100 11:24:10	-121.50	13882	100 11:55:23	-46.06	10262	100 10:43:30	18.34	4017
100 13:09:32	-147.97	13883	100 13:40:16	-72.41	10263	100 12:28:26	-8.02	4018
100 14:54:53	-174.43	13884	100 15:25:09	-98.75	10264	100 14:13:22	-34.38	4019
100 16:40:14	159.10	13885	100 17:10:02	-125.10	10265	100 15:58:18	-60.73	4020
100 18:25:35	132.64	13886	100 18:54:54	-151.44	10266	100 17:43:14	-87.09	4021
100 20:10:57	106.18	13887	100 20:39:47	-177.79	10267	100 19:28:10	-113.45	4022
100 21:56:18	79.71	13888	100 22:24:40	155.87	10268	100 21:13:06	-139.81	4023
100 23:41:39	53.25	13889				100 22:58:01	-166.17	4024

West longitude is negative (—)

Satellite 1			Satellite 2			Satellite 3		
TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT	TIME (GMT)	E. LONG.	ORBIT
day hr mn sc	deg.dg		day hr mn sc	deg.dg		day hr mn sc	deg.dg	
101 01:27:00	26.78	13890	101 00:09:33	129.52	10269	101 00:42:57	167.47	4025
101 03:12:21	.32	13891	101 01:54:25	103.17	10270	101 02:27:53	141.11	4026
101 04:57:43	-26.14	13892	101 03:39:18	76.83	10271	101 04:12:49	114.76	4027
101 06:43:04	-52.61	13893	101 05:24:11	50.48	10272	101 05:57:45	88.40	4028
101 08:28:25	-79.07	13894	101 07:09:04	24.14	10273	101 07:42:41	62.04	4029
101 10:13:46	-105.54	13895	101 08:53:56	-2.21	10274	101 09:27:37	35.68	4030
101 11:59:08	-132.00	13896	101 10:38:49	-28.55	10275	101 11:12:33	9.32	4031
101 13:44:29	-158.47	13897	101 12:23:42	-54.90	10276	101 12:57:28	-17.04	4032
101 15:29:50	175.07	13898	101 14:08:35	-81.24	10277	101 14:42:24	-43.39	4033
101 17:15:11	148.60	13899	101 15:53:27	-107.59	10278	101 16:27:20	-69.75	4034
101 19:00:33	122.14	13900	101 17:38:20	-133.93	10279	101 18:12:16	-96.11	4035
101 20:45:54	95.68	13901	101 19:23:13	-160.28	10280	101 19:57:12	-122.47	4036
101 22:31:15	69.21	13902	101 21:08:06	173.38	10281	101 21:42:08	-148.83	4037
			101 22:52:58	147.03	10282	101 23:27:04	-175.18	4038
102 00:16:36	42.75	13903	102 00:37:51	120.68	10283	102 01:12:00	158.46	4039
102 02:01:58	16.29	13904	102 02:22:44	94.34	10284	102 02:56:55	132.10	4040
102 03:47:19	-10.18	13905	102 04:07:37	67.99	10285	102 04:41:51	105.74	4041
102 05:32:40	-36.64	13906	102 05:52:29	41.65	10286	102 06:26:47	79.38	4042
102 07:18:01	-63.11	13907	102 07:37:22	15.30	10287	102 08:11:43	53.02	4043
102 09:03:23	-89.57	13908	102 09:22:15	-11.04	10288	102 09:56:39	26.67	4044
102 10:48:44	-116.04	13909	102 11:07:08	-37.39	10289	102 11:41:35	.31	4045
102 12:34:05	-142.50	13910	102 12:52:01	-63.73	10290	102 13:26:31	-26.05	4046
102 14:19:26	-168.97	13911	102 14:36:53	-90.08	10291	102 15:11:27	-52.41	4047
102 16:04:48	164.57	13912	102 16:21:46	-116.42	10292	102 16:56:23	-78.77	4048
102 17:50:09	138.11	13913	102 18:06:39	-142.77	10293	102 18:41:18	-105.13	4049
102 19:35:30	111.64	13914	102 19:51:32	-169.11	10294	102 20:26:14	-131.49	4050
102 21:20:51	85.18	13915	102 21:36:24	164.54	10295	102 22:11:10	-157.84	4051
102 23:06:13	58.71	13916	102 23:21:17	138.19	10296	102 23:56:06	175.80	4052
103 00:51:34	32.25	13917	103 01:06:10	111.85	10297	103 01:41:02	149.44	4053
103 02:36:55	5.78	13918	103 02:51:03	85.51	10298	103 03:25:58	123.08	4054
103 04:22:16	-20.68	13919	103 04:35:55	59.16	10299	103 05:10:54	96.72	4055
103 06:07:37	-47.14	13920	103 06:20:48	32.81	10300	103 06:55:50	70.37	4056
103 07:52:59	-73.61	13921	103 08:05:41	6.47	10301	103 08:40:45	44.01	4057
103 09:38:20	-100.07	13922	103 09:50:34	-19.88	10302	103 10:25:41	17.65	4058
103 11:23:41	-126.54	13923	103 11:35:26	-46.22	10303	103 12:10:37	-8.71	4059
103 13:09:02	-153.00	13924	103 13:20:19	-72.57	10304	103 13:55:33	-35.07	4060
103 14:54:24	-179.46	13925	103 15:05:12	-98.91	10305	103 15:40:29	-61.43	4061
103 16:39:45	154.07	13926	103 16:50:05	-125.26	10306	103 17:25:25	-87.78	4062
103 18:25:06	127.61	13927	103 18:34:57	-151.61	10307	103 19:10:21	-114.14	4063
103 20:10:27	101.14	13928	103 20:19:50	-177.95	10308	103 20:55:17	-140.50	4064
103 21:55:49	74.68	13929	103 22:04:43	155.70	10309	103 22:40:12	-166.86	4065
103 23:41:10	48.21	13930	103 23:49:36	129.36	10310			
			104 01:34:28	103.01	10311	104 00:25:08	166.78	4066
			104 03:19:21	76.67	10312	104 02:10:04	140.42	4067
			104 05:04:14	50.32	10313	104 03:55:00	114.06	4068
			104 06:49:07	23.98	10314	104 05:39:56	87.71	4069
			104 08:33:59	-2.37	10315	104 07:24:52	61.35	4070
			104 10:18:52	-28.71	10316	104 09:09:48	34.99	4071
			104 12:03:45	-55.06	10317	104 10:54:44	8.63	4072
			104 13:48:38	-81.40	10318	104 12:39:40	-17.73	4073
			104 15:33:30	-107.75	10319	104 14:24:35	-44.09	4074
			104 17:18:23	-134.10	10320	104 16:09:31	-70.44	4075
			104 19:03:16	-160.44	10321	104 17:54:27	-96.80	4076
			104 20:48:09	173.22	10322	104 19:39:23	-123.16	4077
			104 22:33:01	146.87	10323	104 21:24:19	-149.52	4078
						104 23:09:15	-175.88	4079

West longitude is negative (—)

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